

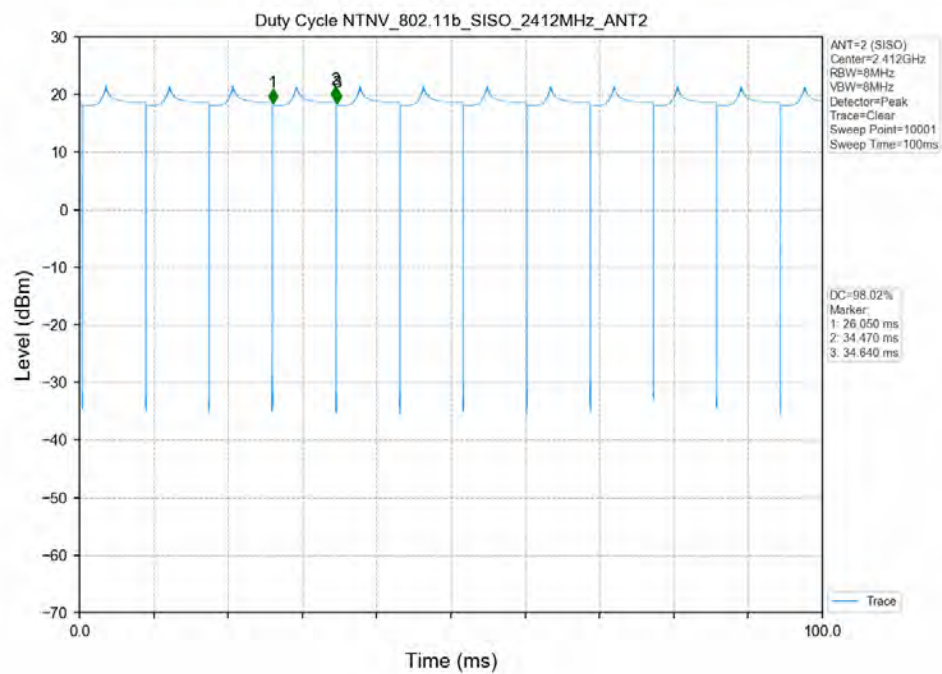
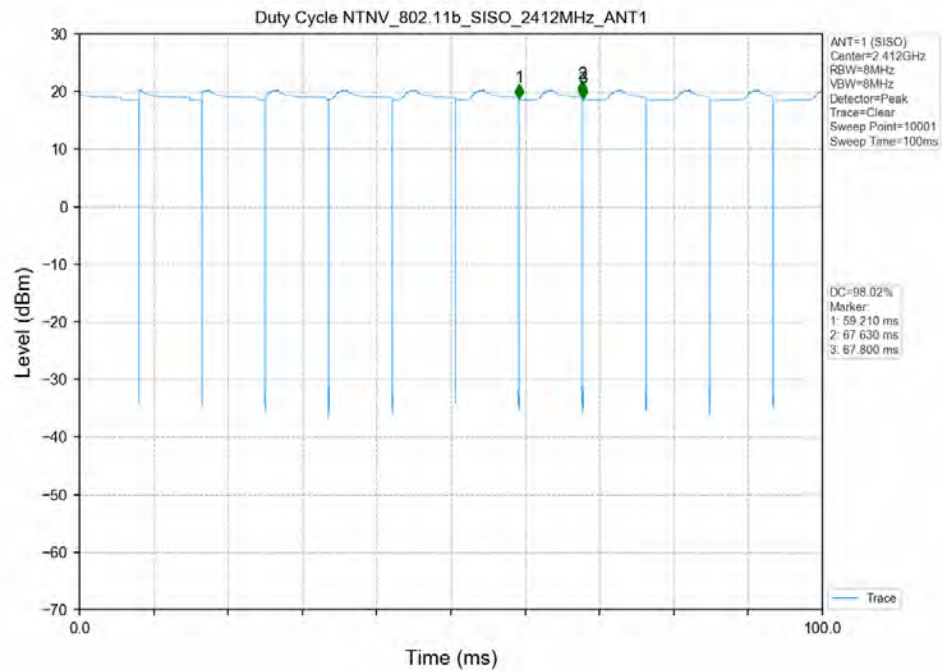
Appendix A for SHEM201000884901

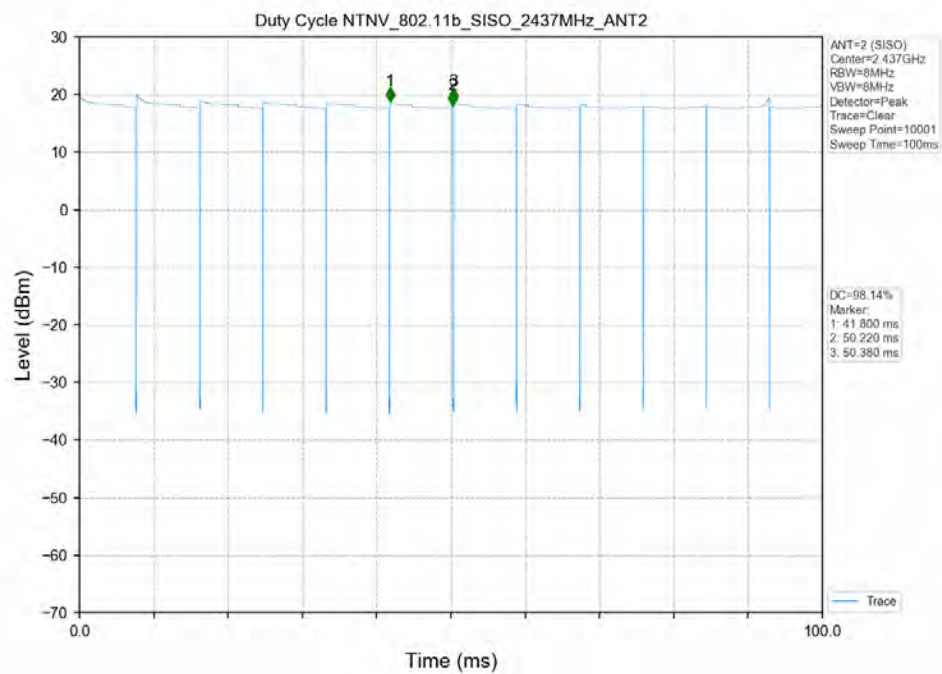
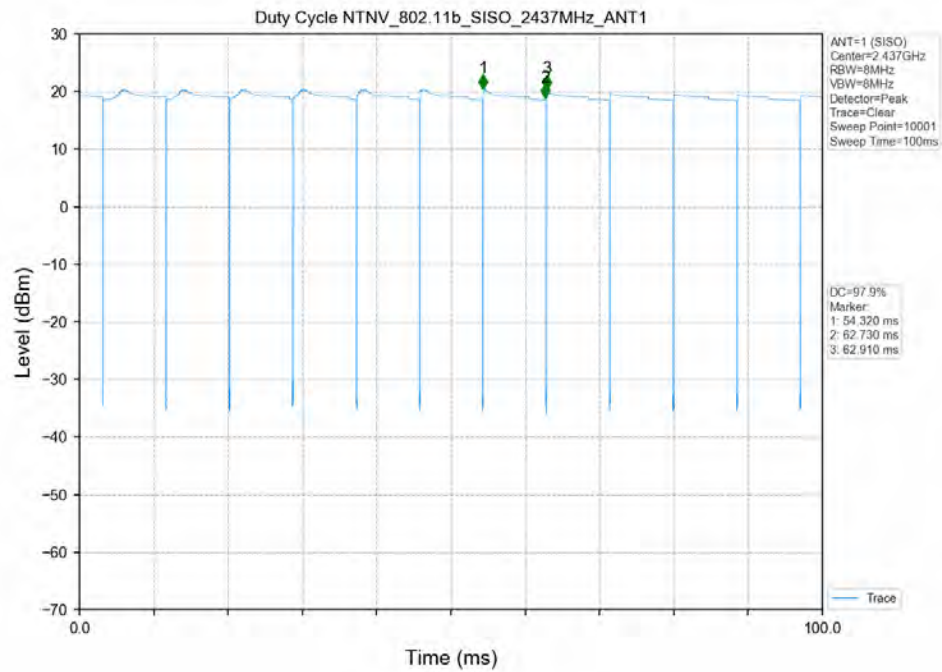
1. Duty Cycle

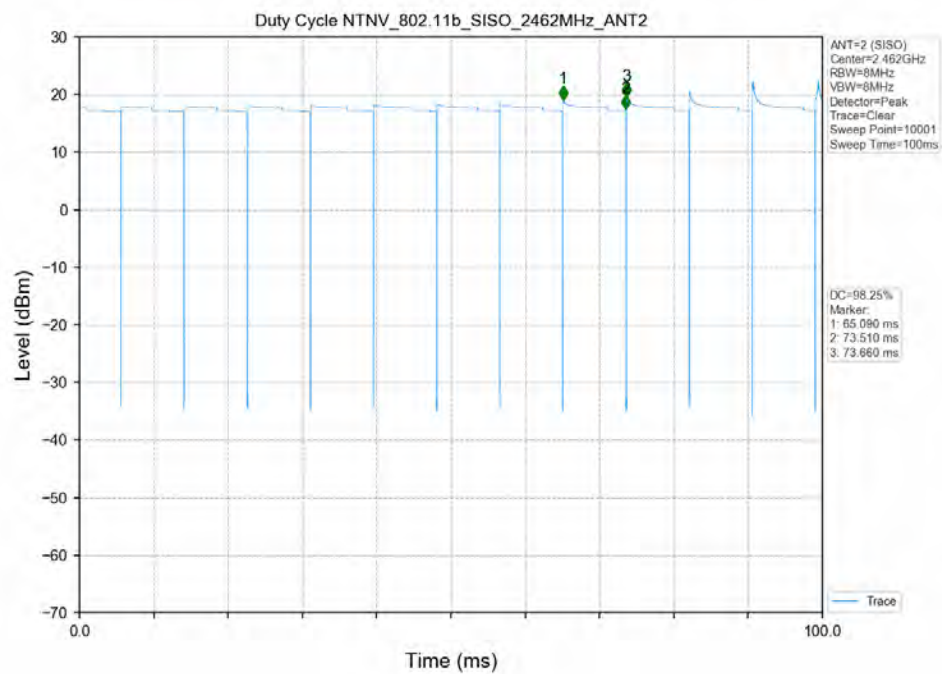
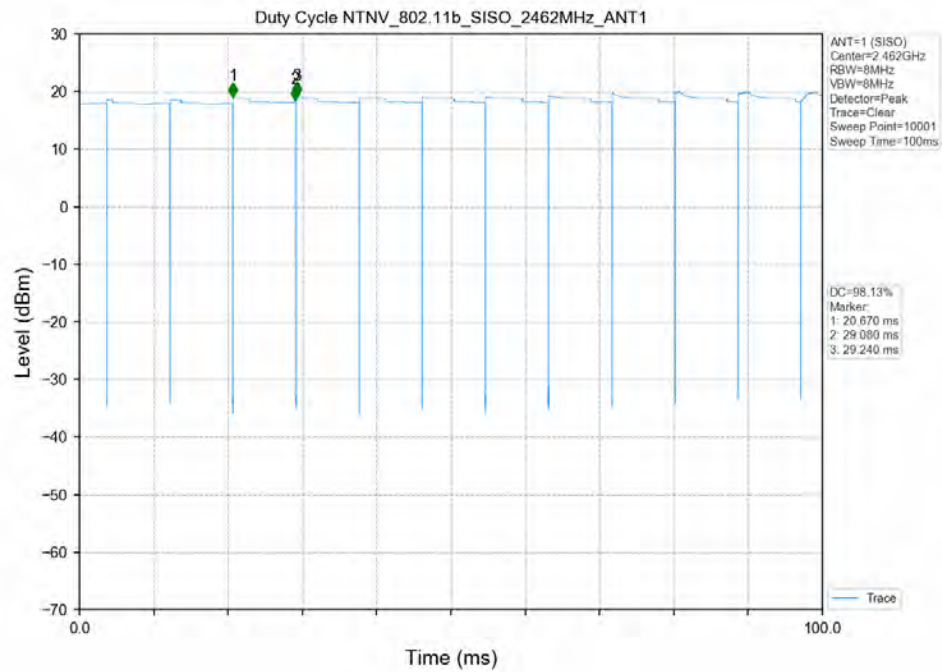
1.1 Test Result

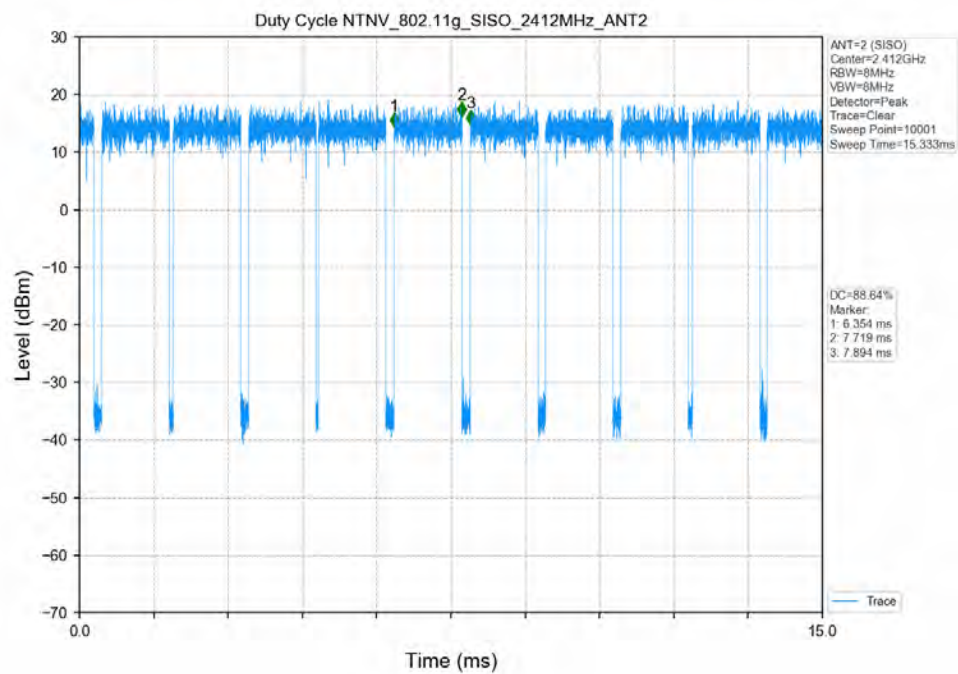
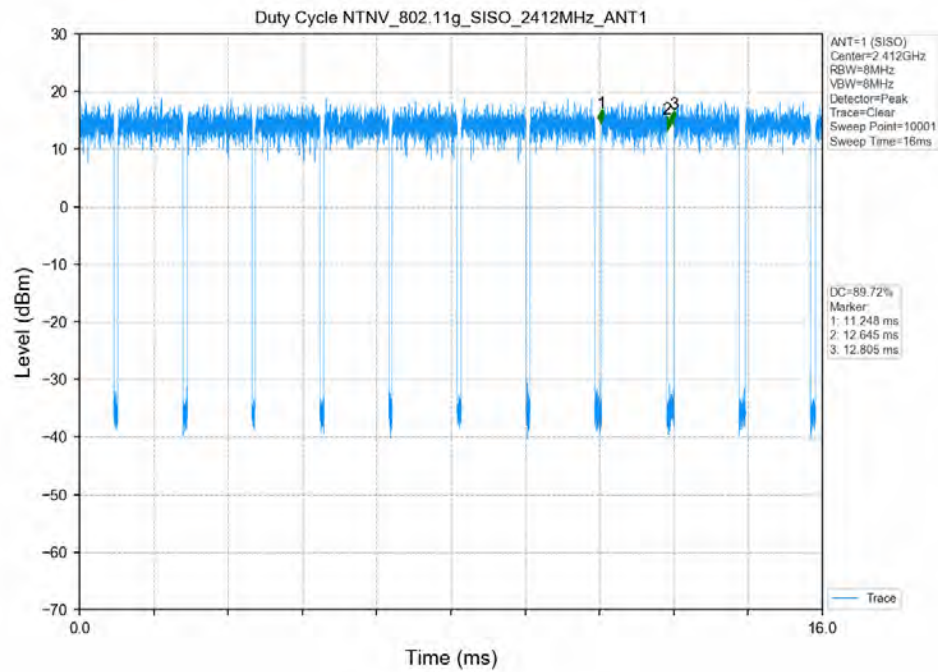
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.420	8.590	98.02	0.09
			2	8.420	8.590	98.02	0.09
	2437	SISO	1	8.410	8.590	97.90	0.09
			2	8.420	8.580	98.14	0.08
	2462	SISO	1	8.410	8.570	98.13	0.08
			2	8.420	8.570	98.25	0.08
802.11g	2412	SISO	1	1.397	1.557	89.72	0.47
			2	1.365	1.540	88.64	0.52
	2437	SISO	1	1.366	1.532	89.16	0.50
			2	1.368	1.535	89.12	0.50
	2462	SISO	1	1.395	1.556	89.65	0.47
			2	1.369	1.544	88.67	0.52
802.11n(HT20)	2412	MIMO	1	1.284	1.459	88.01	0.55
			2	1.309	1.434	91.28	0.40
	2437	MIMO	1	1.307	1.476	88.55	0.53
			2	1.308	1.468	89.10	0.50
	2462	MIMO	1	1.307	1.460	89.52	0.48
			2	1.308	1.487	87.96	0.56

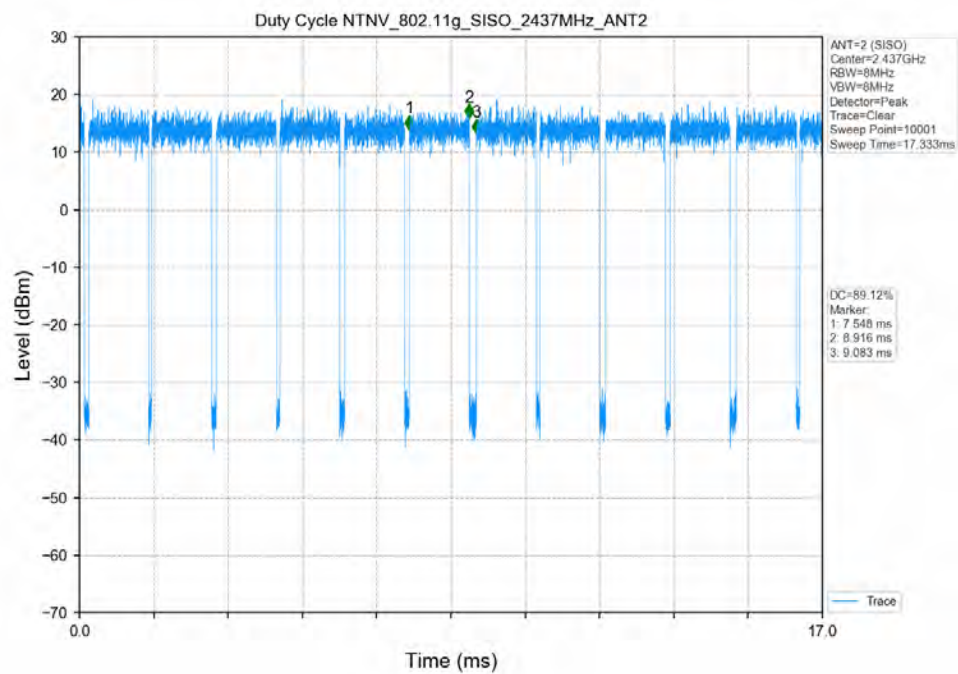
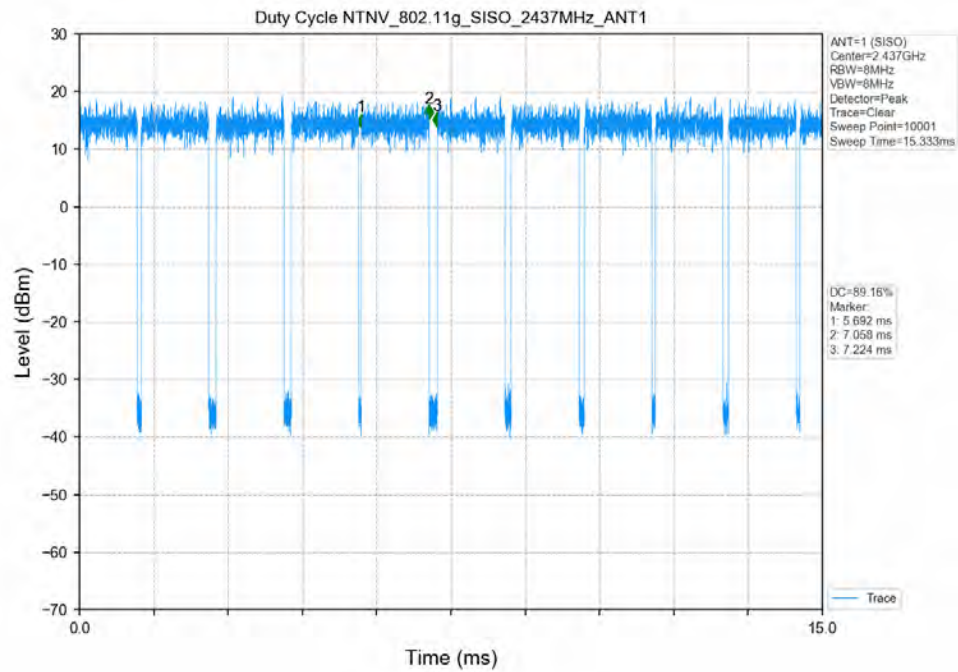
1.2 Test Graph

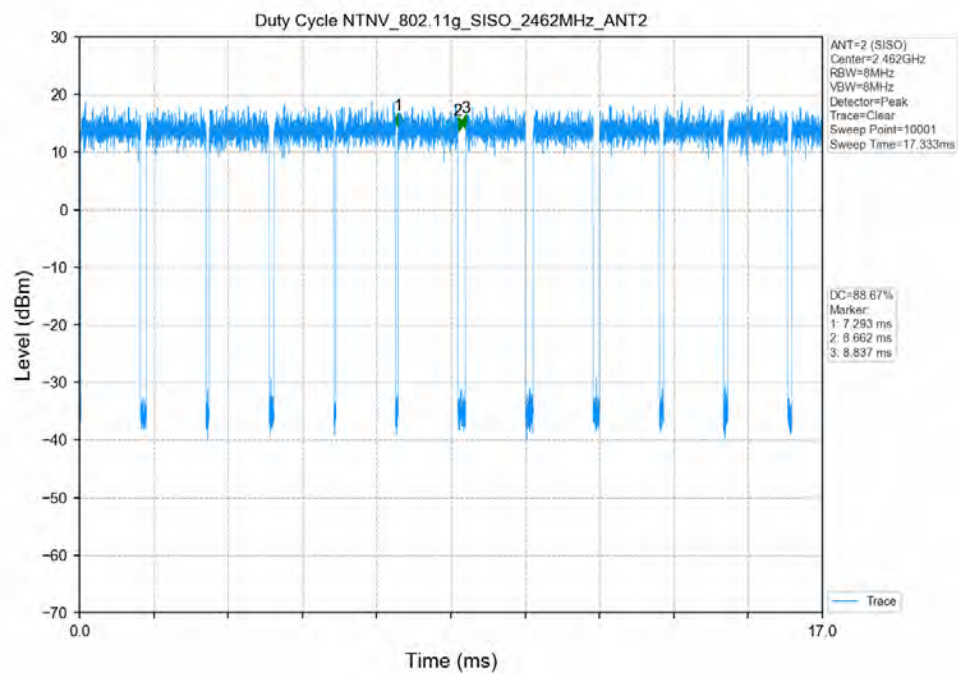
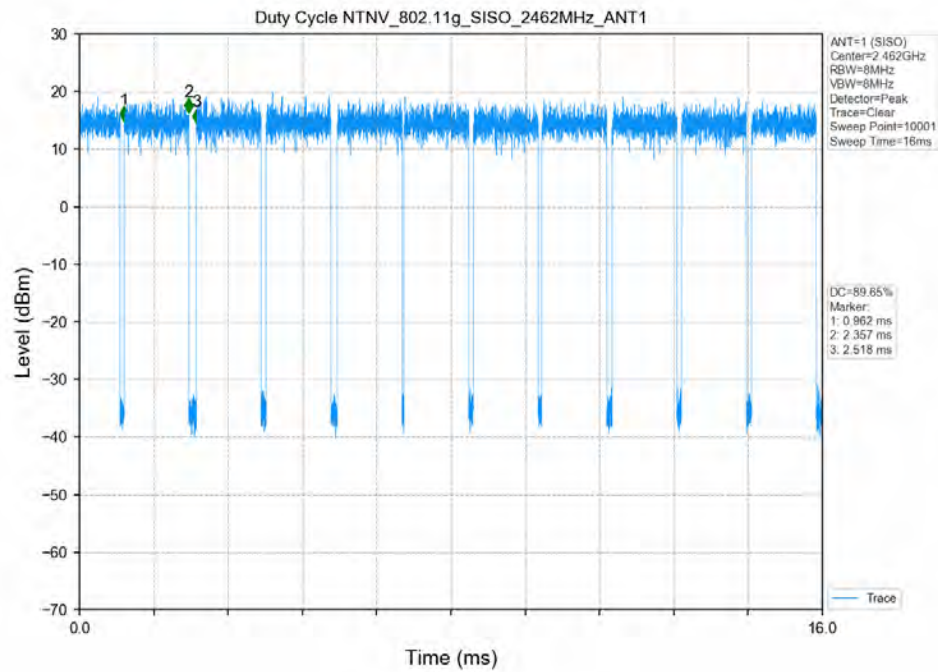


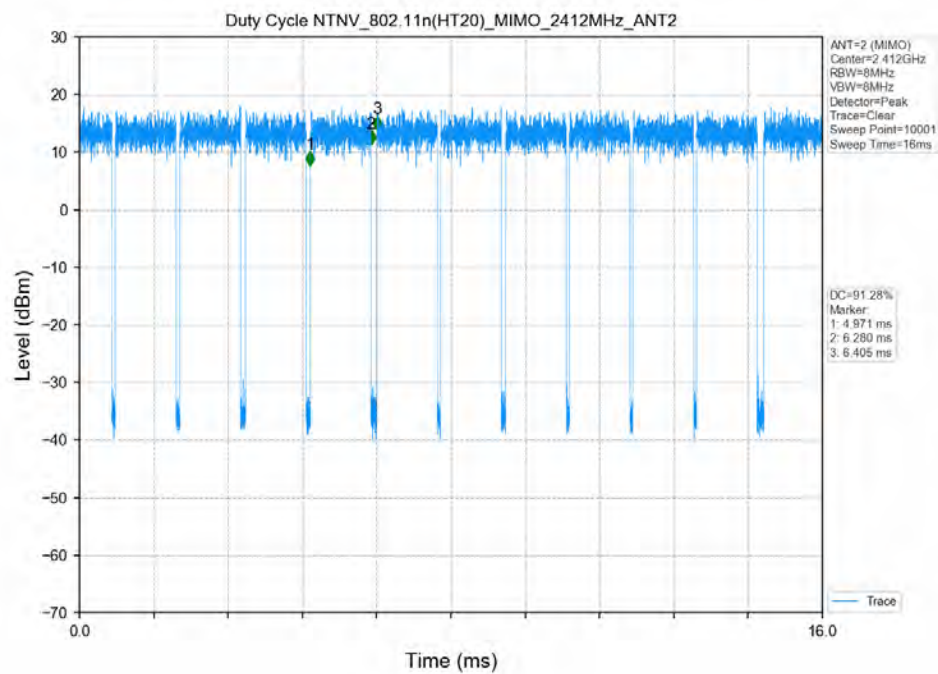
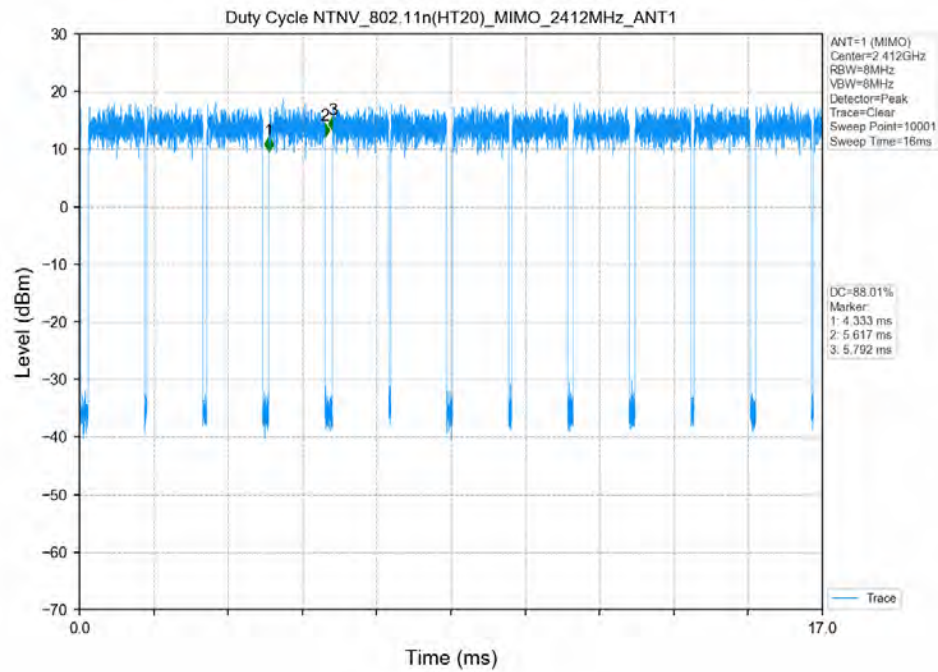


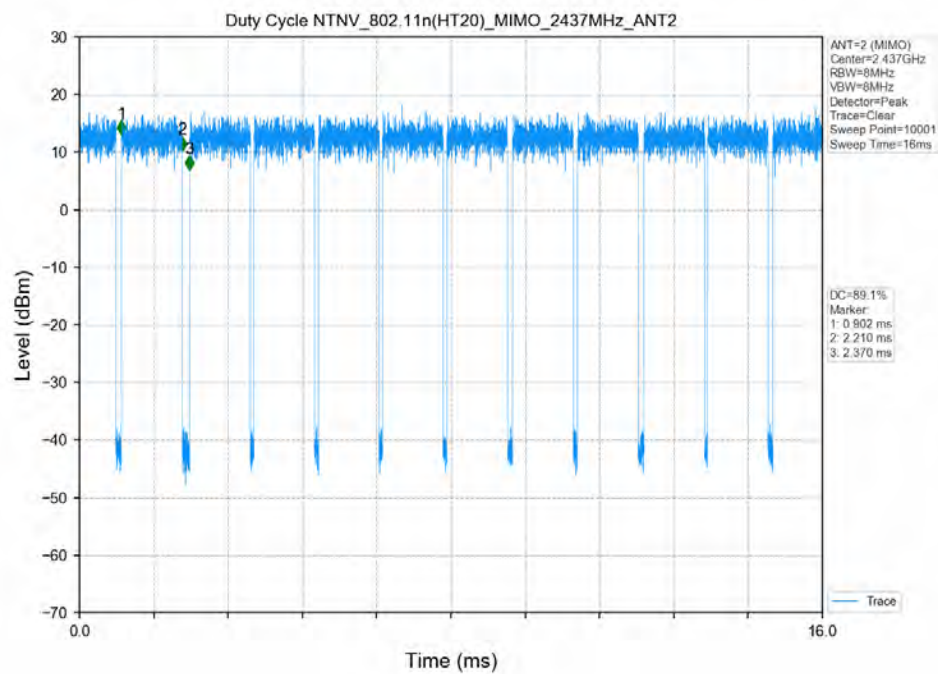
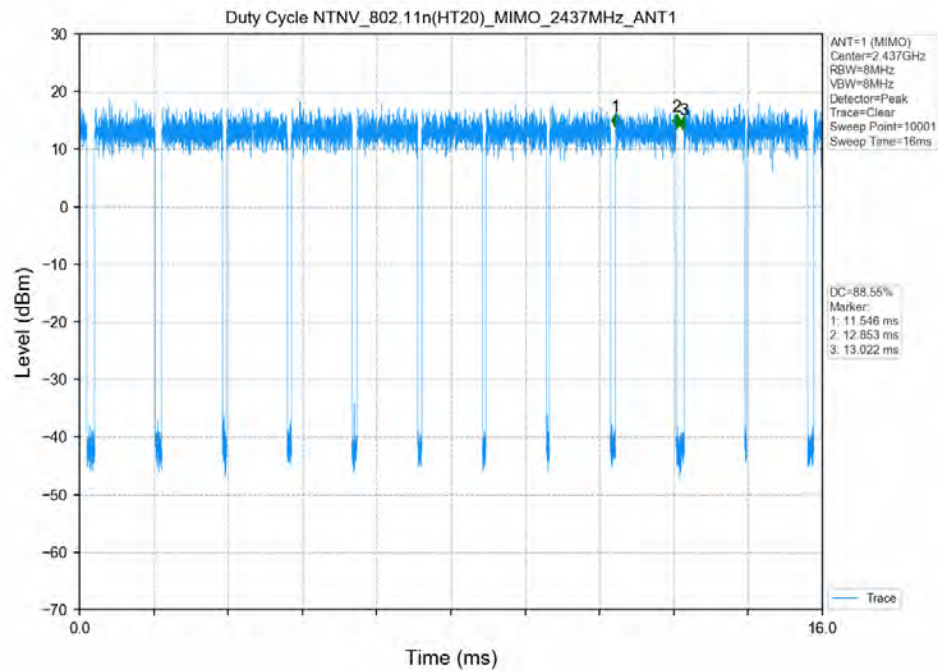


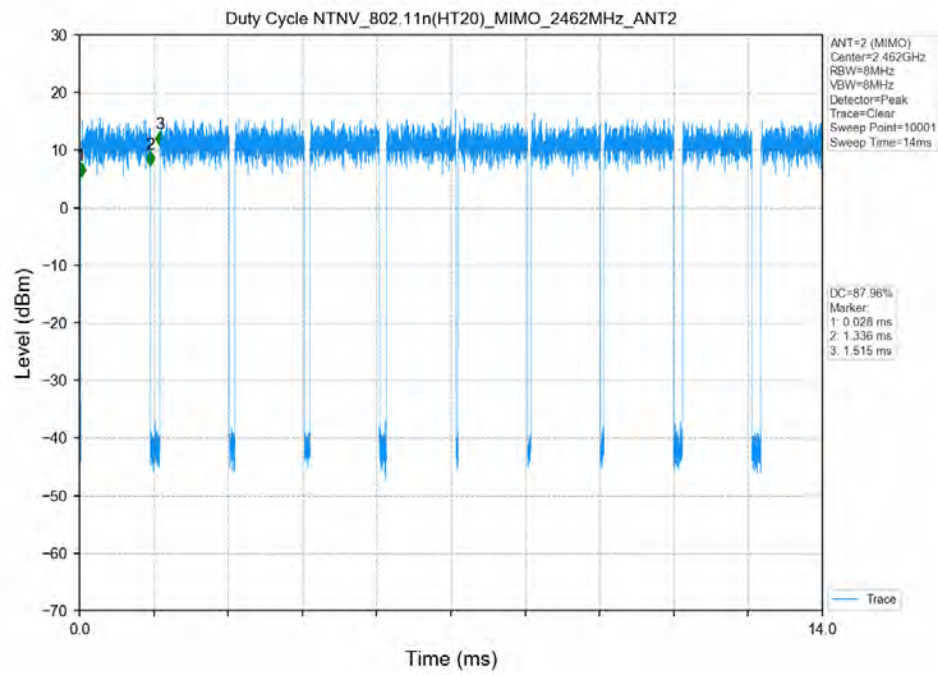
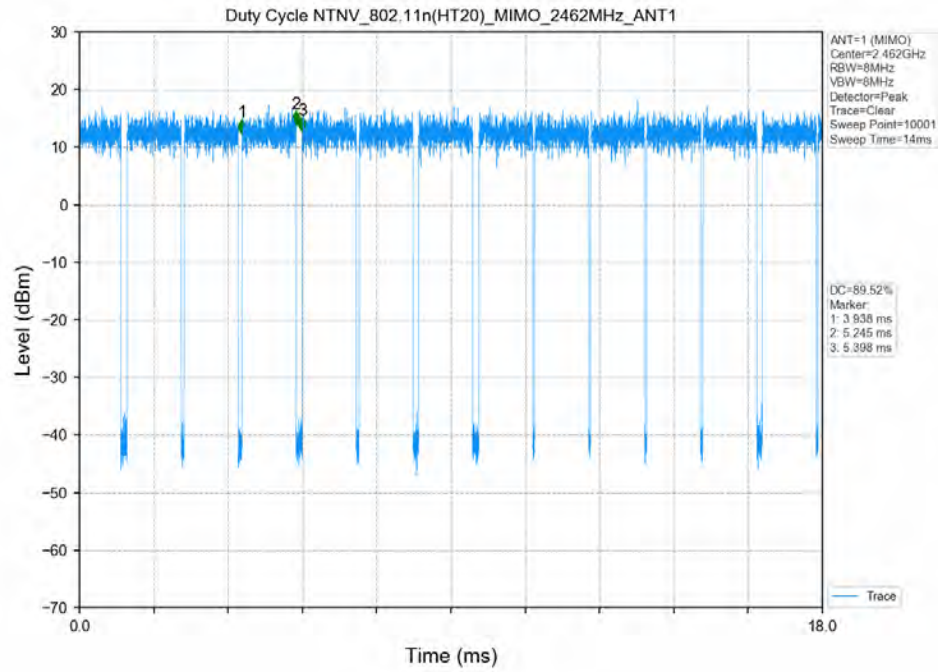












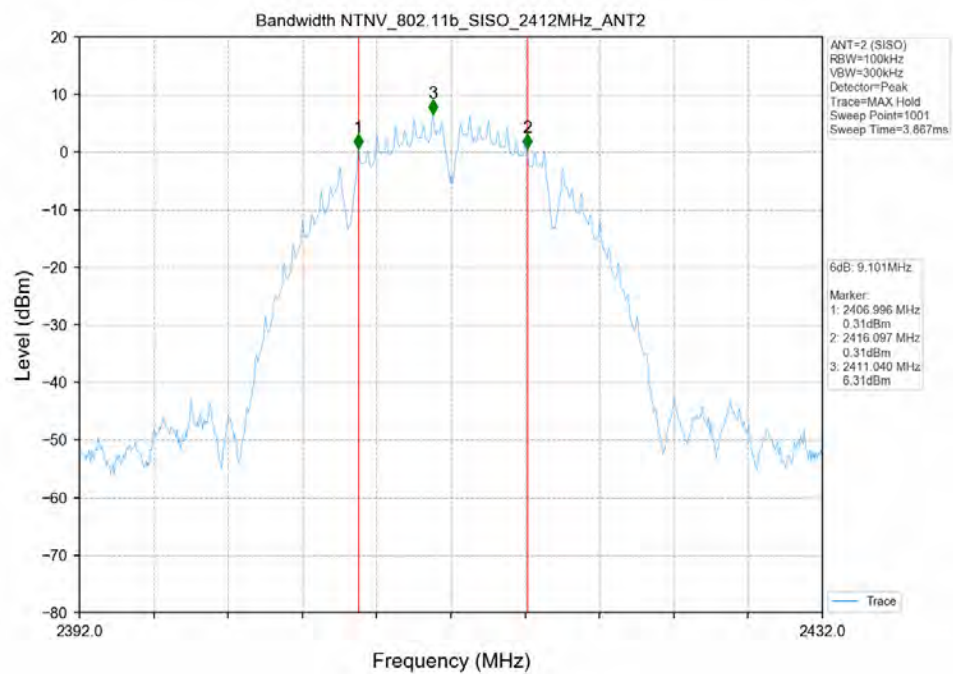
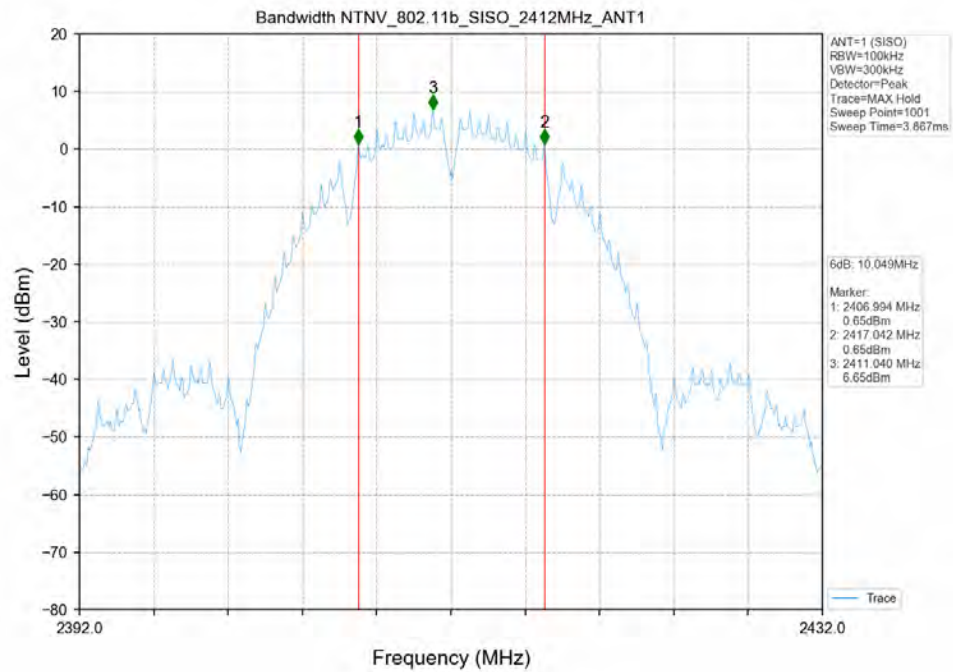
2. Bandwidth

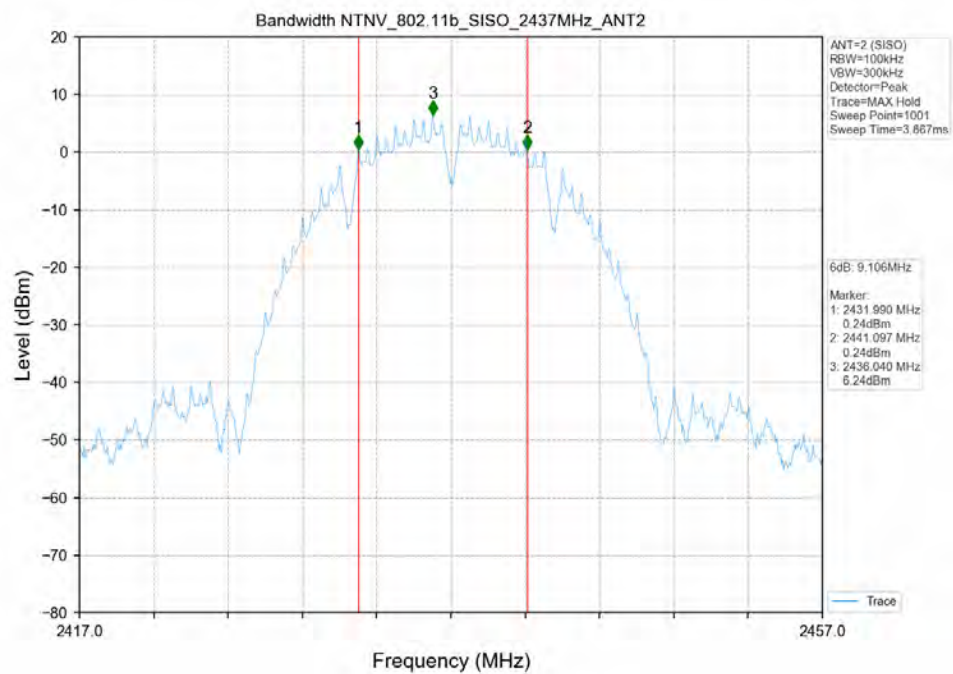
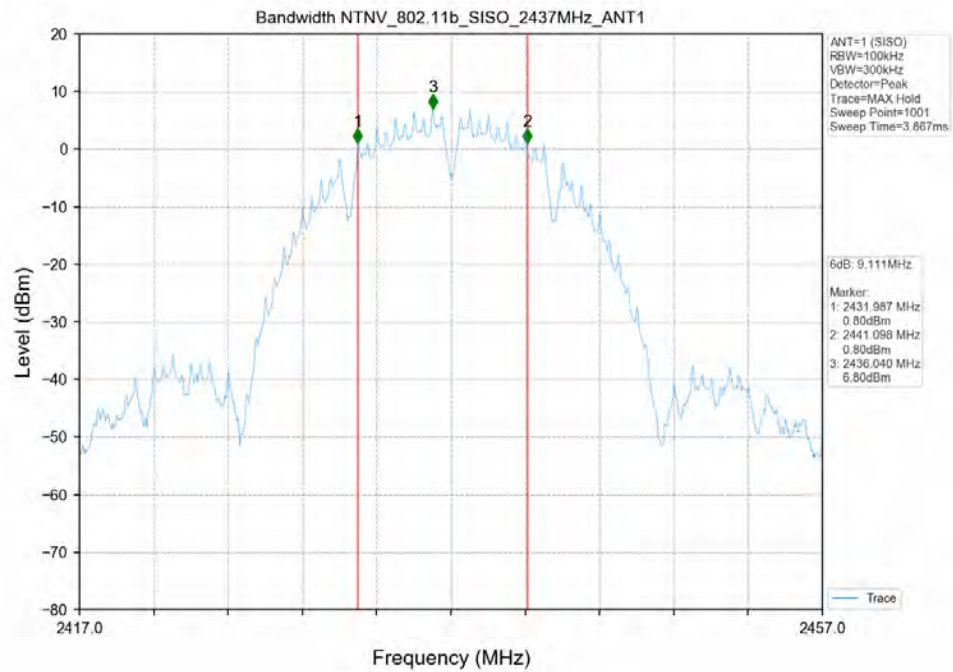
2.1 Test Result

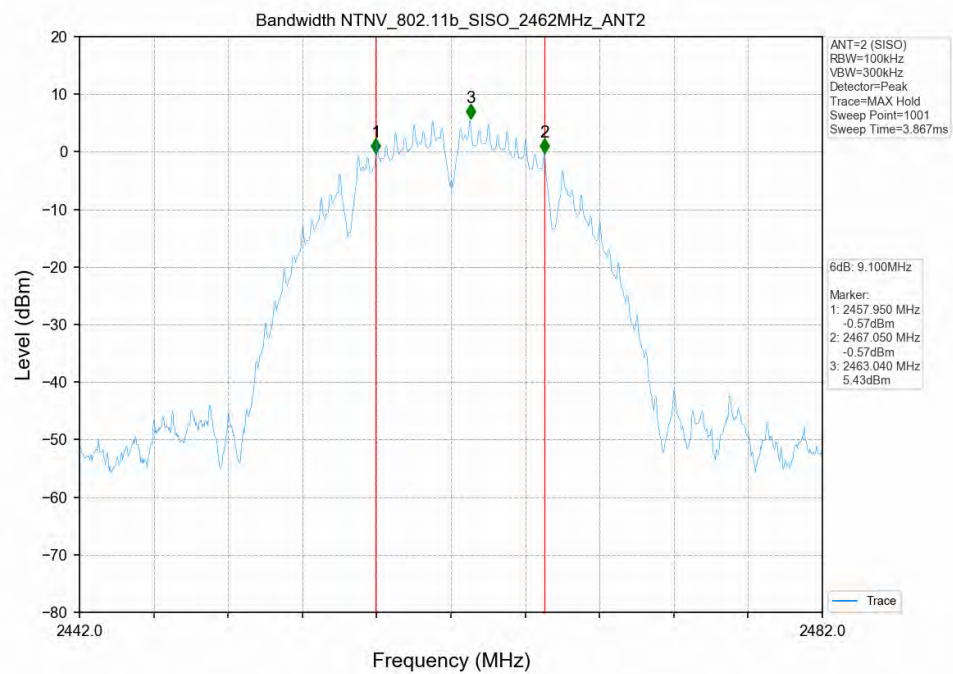
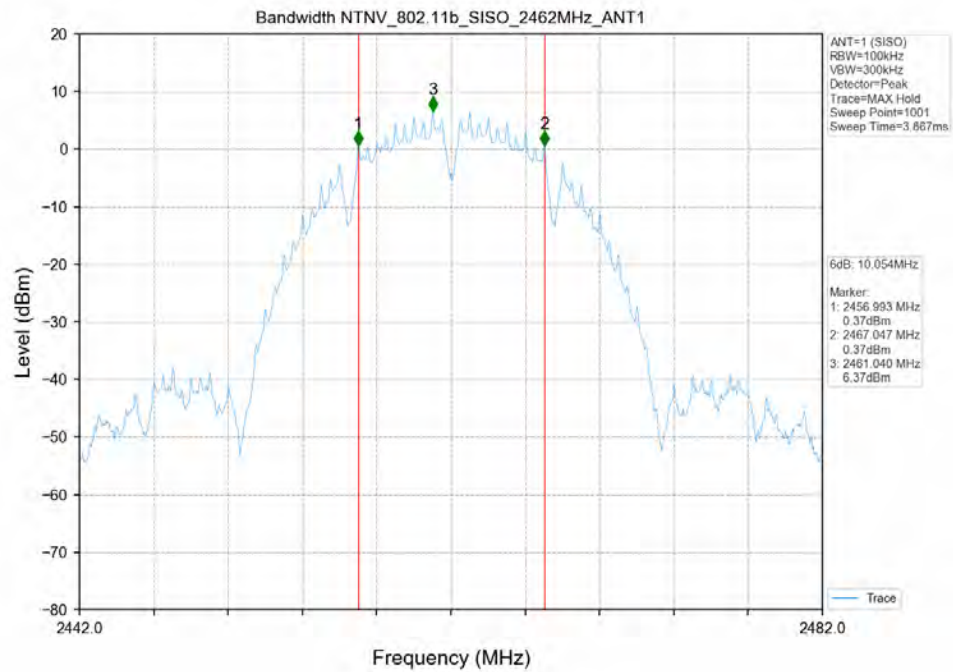
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.049	≥0.5	PASS
			2	9.101	≥0.5	PASS
	2437	SISO	1	9.111	≥0.5	PASS
			2	9.106	≥0.5	PASS
	2462	SISO	1	10.054	≥0.5	PASS
			2	9.100	≥0.5	PASS
802.11g	2412	SISO	1	15.089	≥0.5	PASS
			2	14.496	≥0.5	PASS
	2437	SISO	1	15.084	≥0.5	PASS
			2	15.146	≥0.5	PASS
	2462	SISO	1	15.123	≥0.5	PASS
			2	15.337	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	15.110	≥0.5	PASS
			2	15.105	≥0.5	PASS
	2437	MIMO	1	15.130	≥0.5	PASS
			2	15.137	≥0.5	PASS
	2462	MIMO	1	15.128	≥0.5	PASS
			2	15.131	≥0.5	PASS

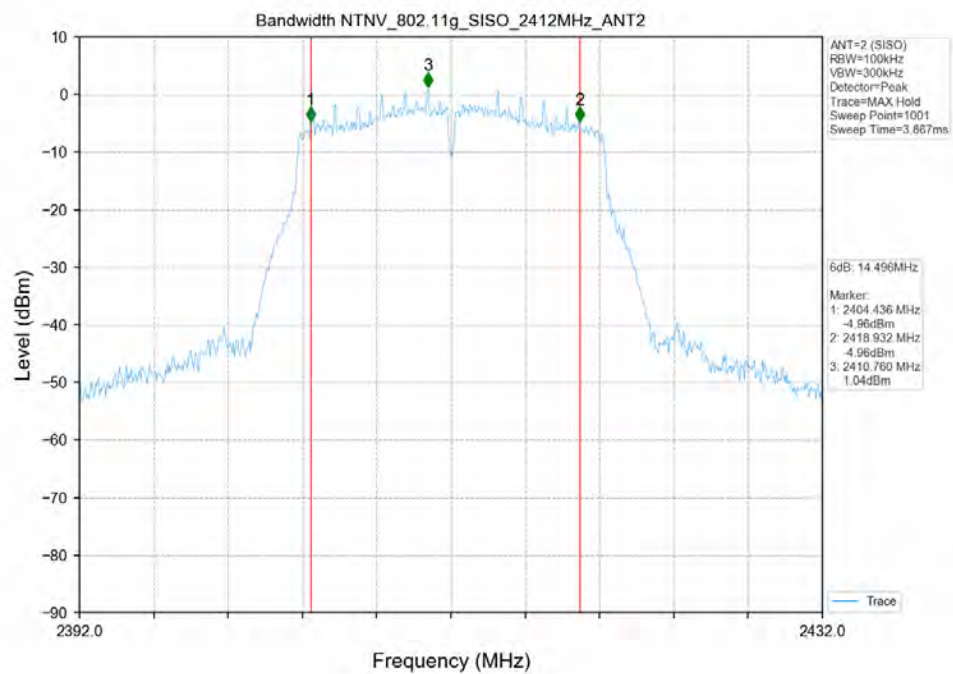
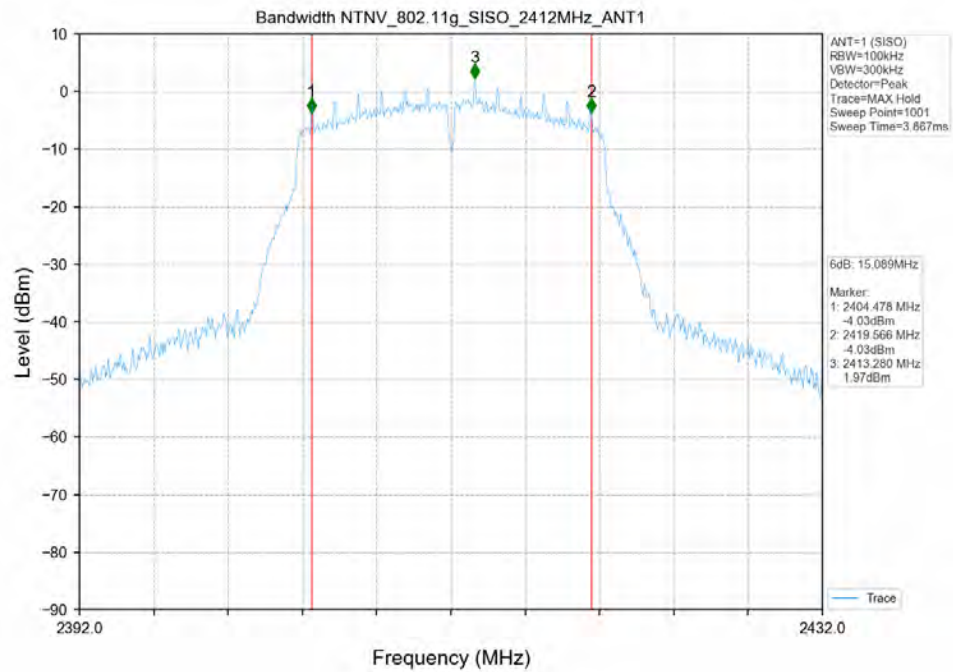
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.214	Only for Report Use
			2	14.073	Only for Report Use
	2437	SISO	1	14.292	Only for Report Use
			2	14.189	Only for Report Use
	2462	SISO	1	14.232	Only for Report Use
			2	14.142	Only for Report Use
802.11g	2412	SISO	1	16.637	Only for Report Use
			2	16.391	Only for Report Use
	2437	SISO	1	16.703	Only for Report Use
			2	16.442	Only for Report Use
	2462	SISO	1	16.662	Only for Report Use
			2	16.424	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.528	Only for Report Use
			2	17.468	Only for Report Use
	2437	MIMO	1	17.563	Only for Report Use
			2	17.503	Only for Report Use
	2462	MIMO	1	17.582	Only for Report Use
			2	17.517	Only for Report Use

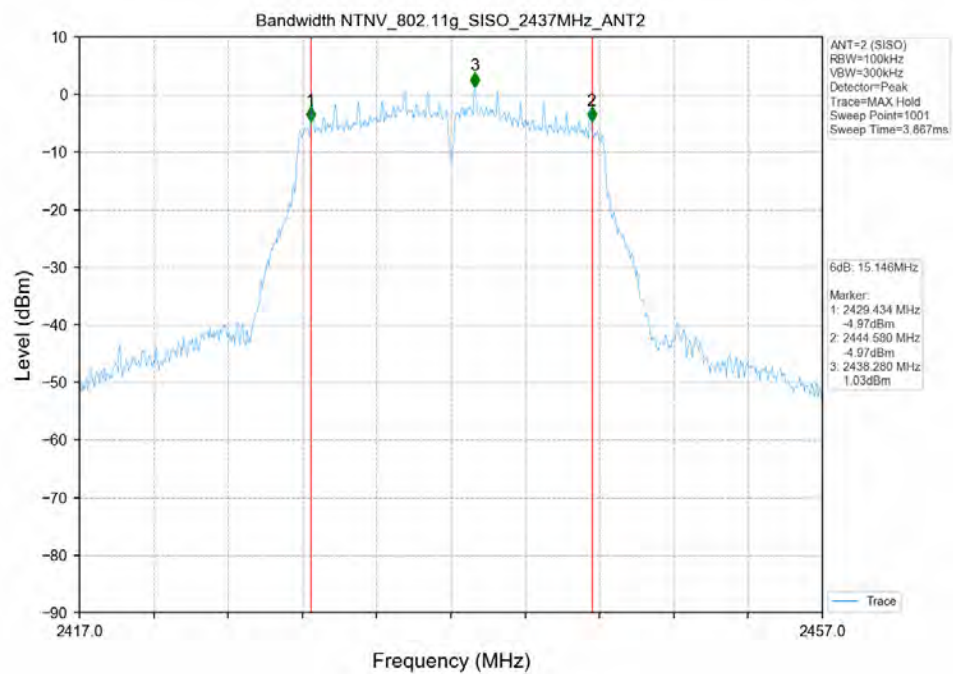
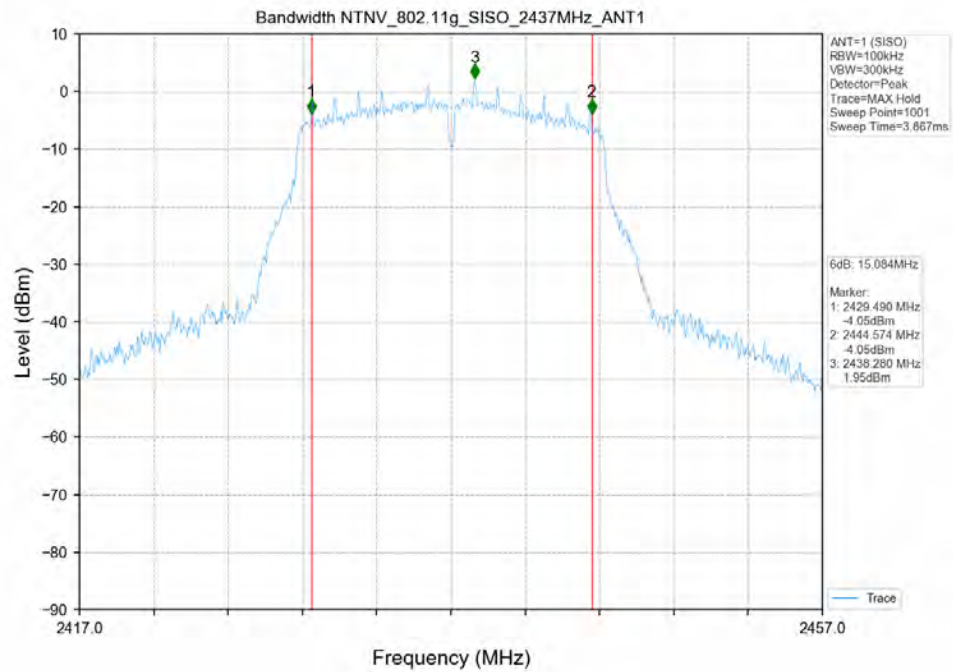
2.2 Test Graph - 6dB Bandwidth

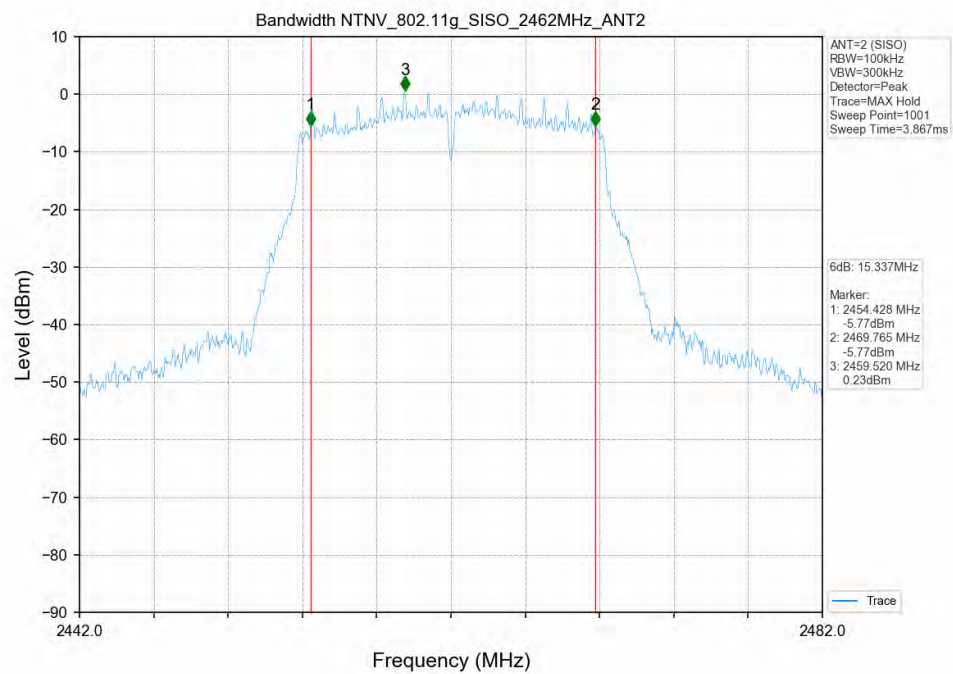
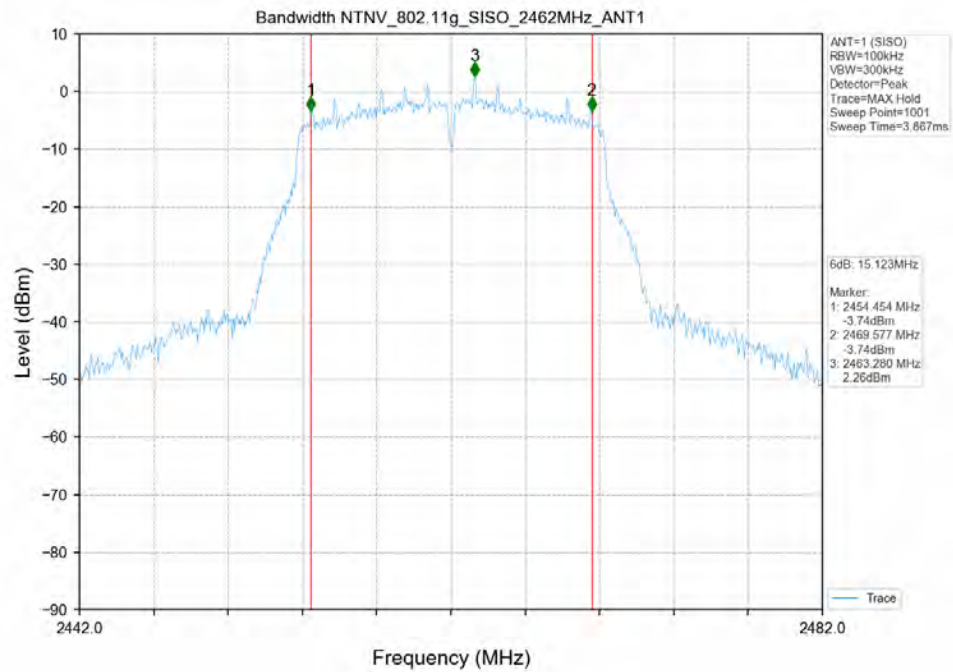


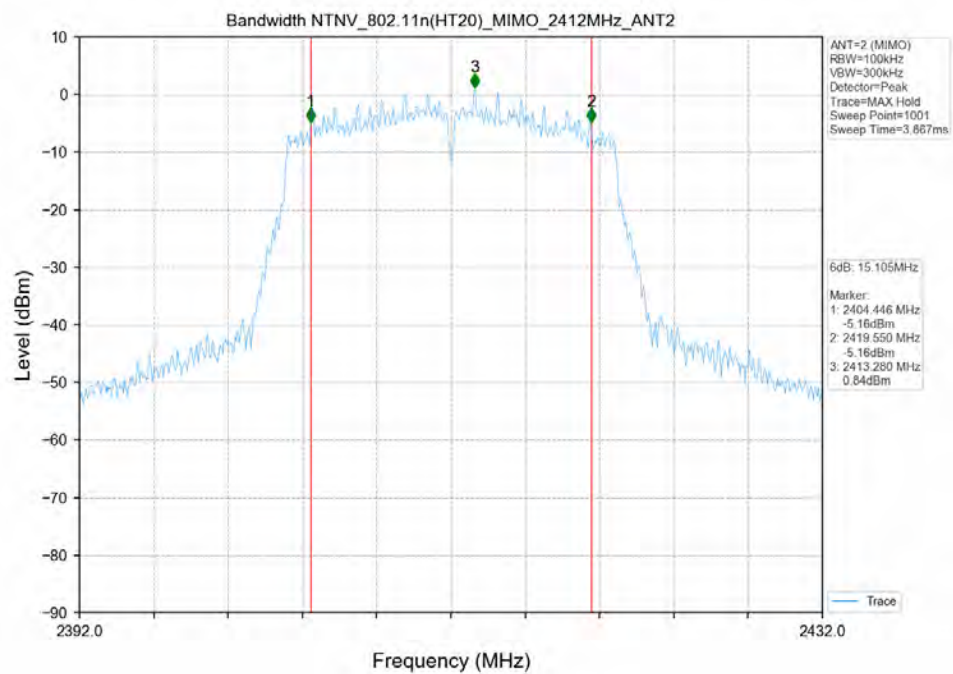
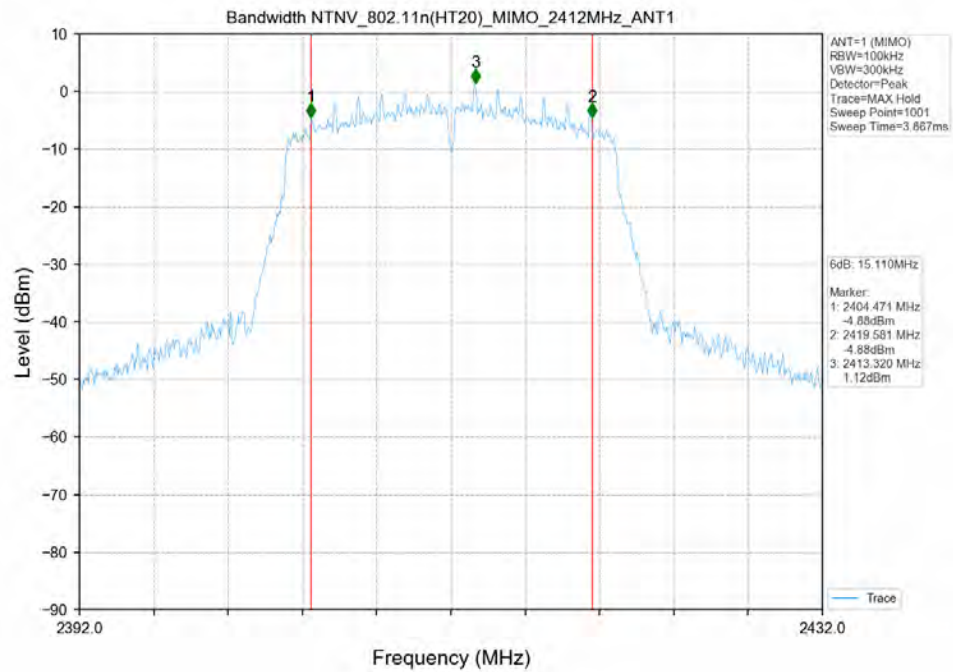


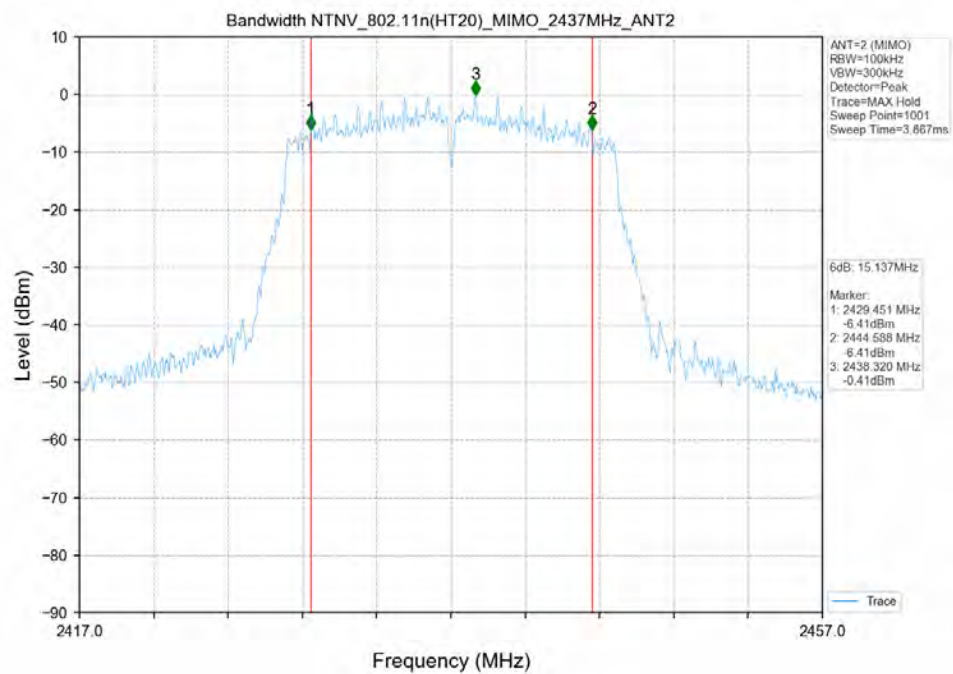
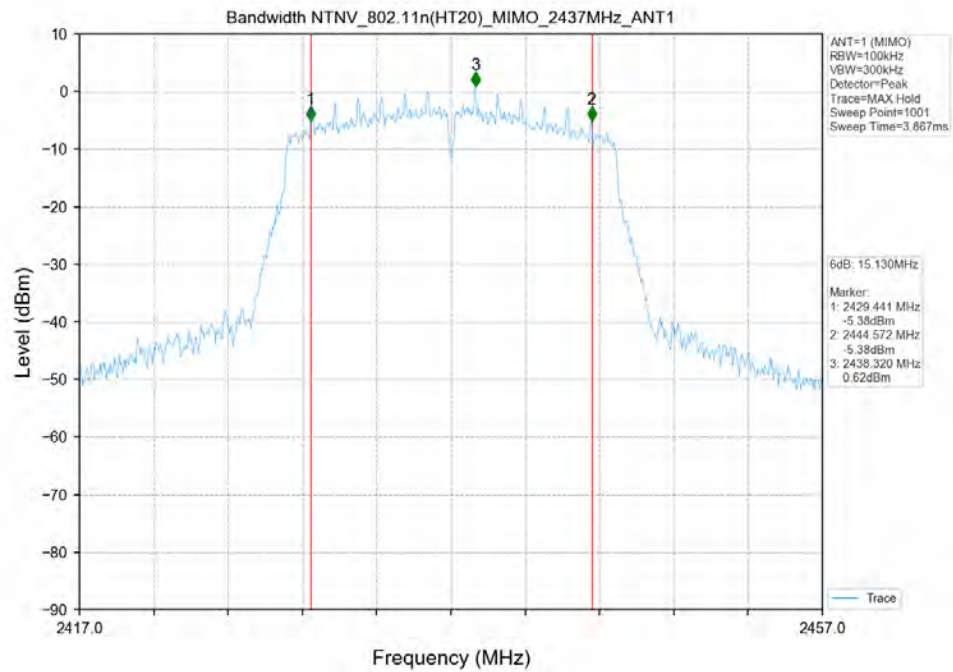


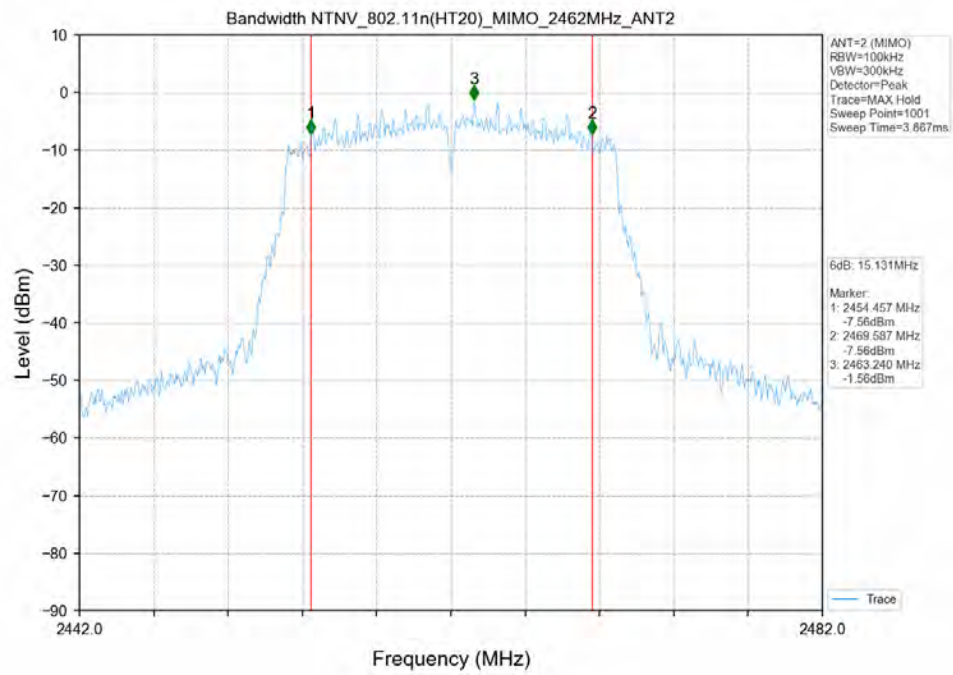
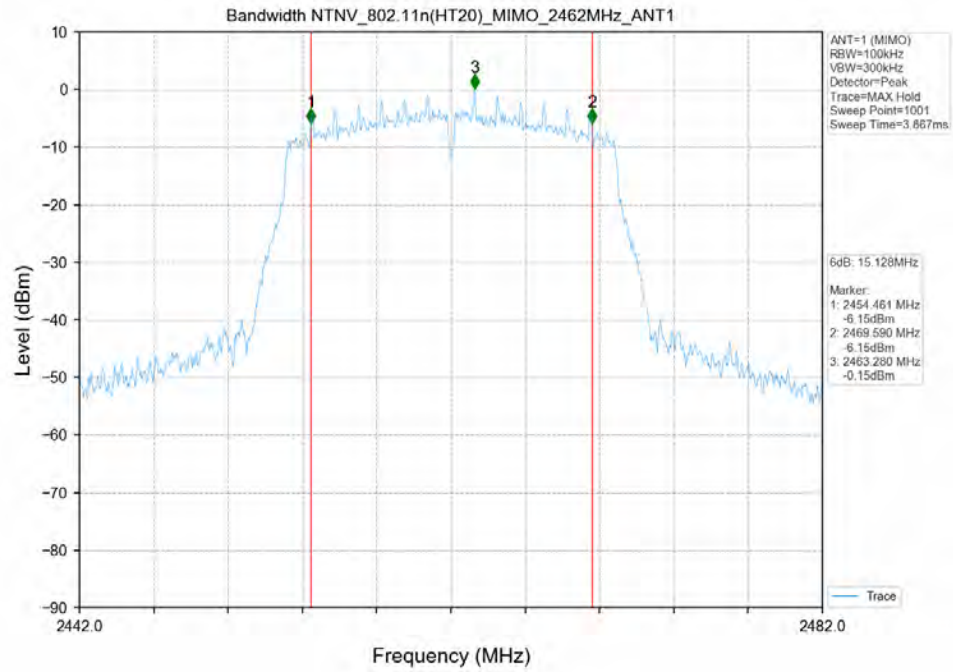




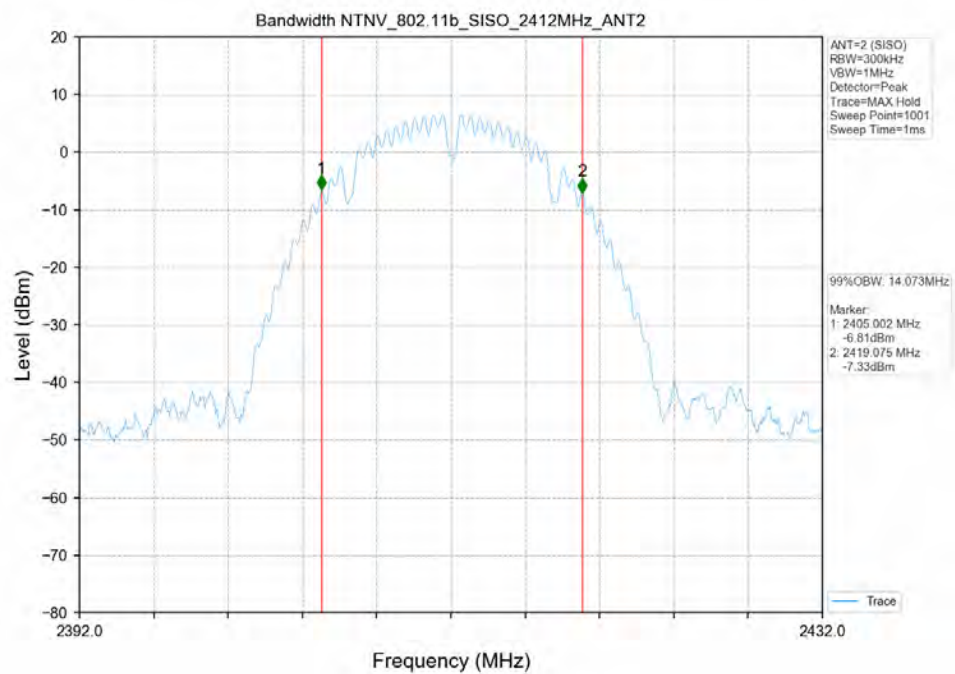
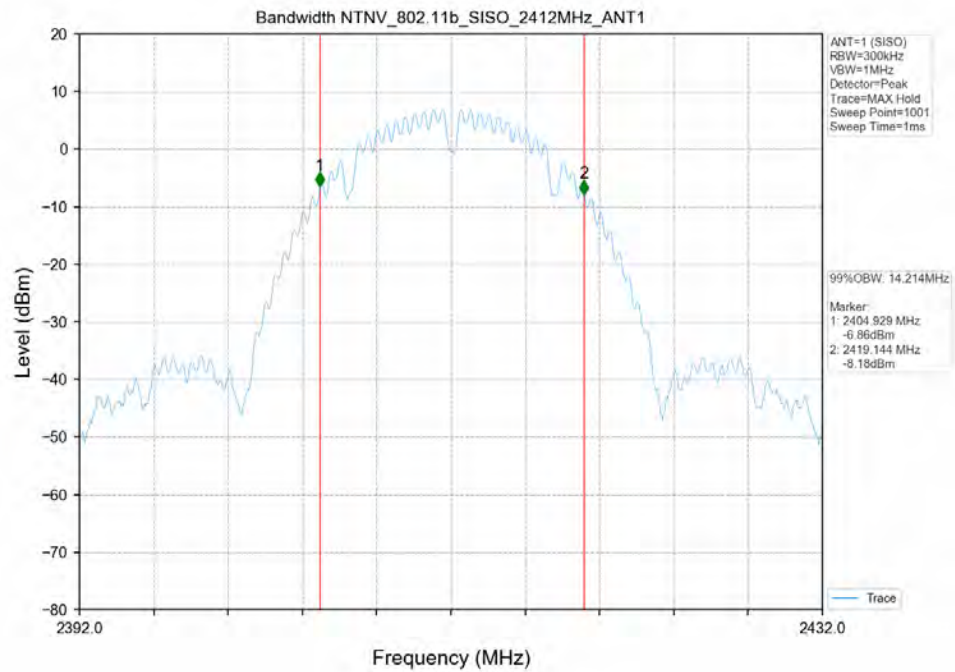


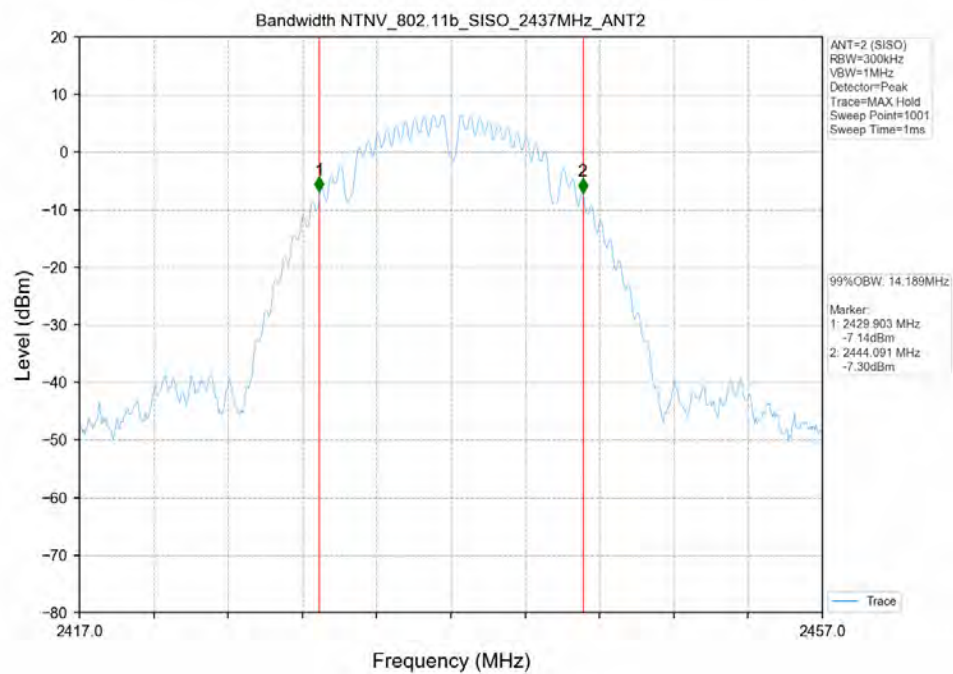
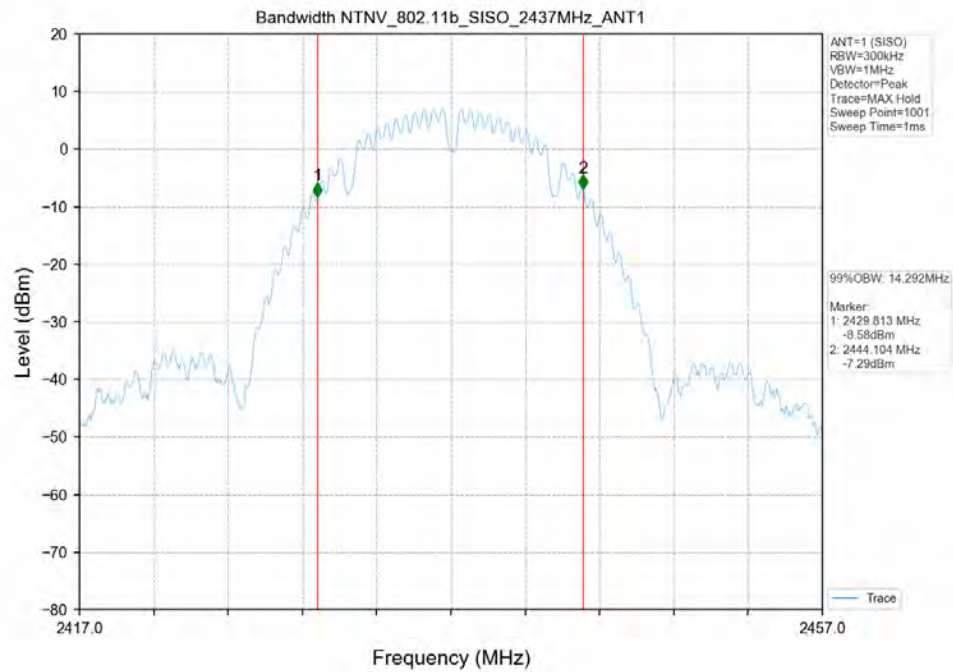


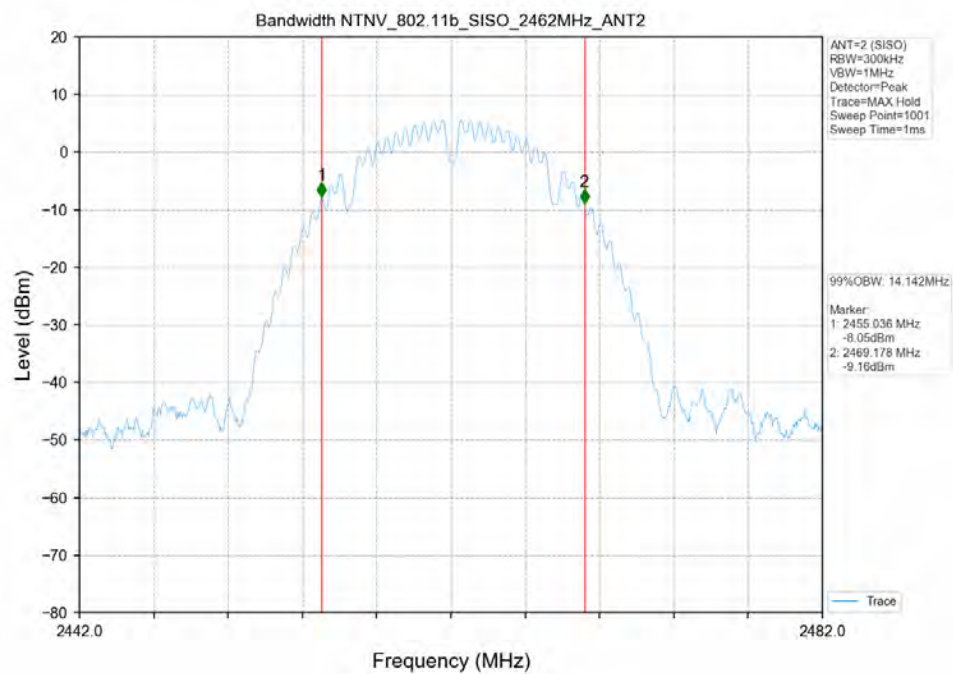
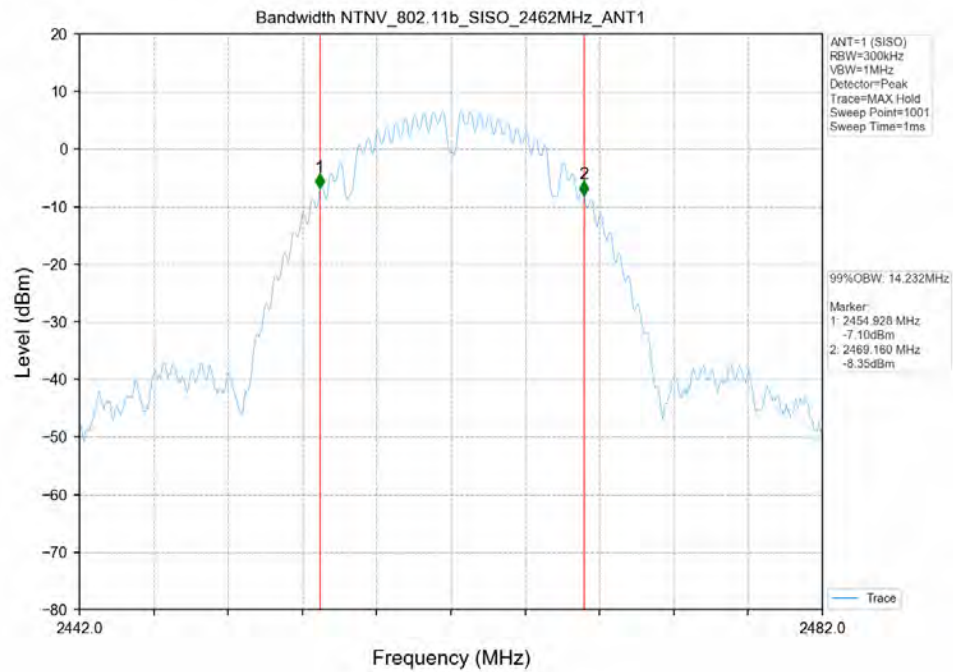


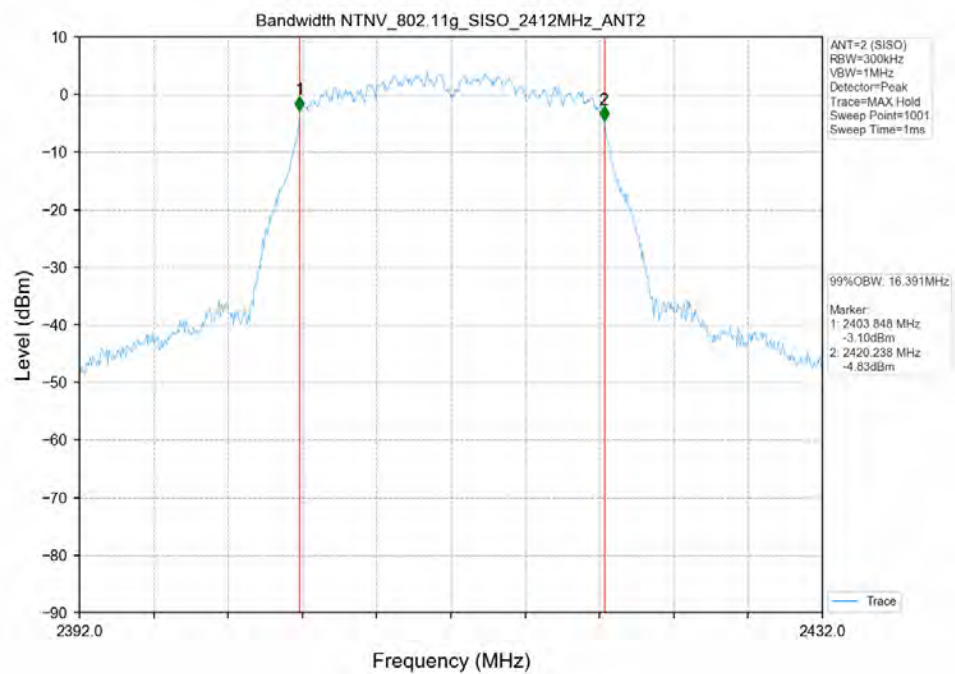
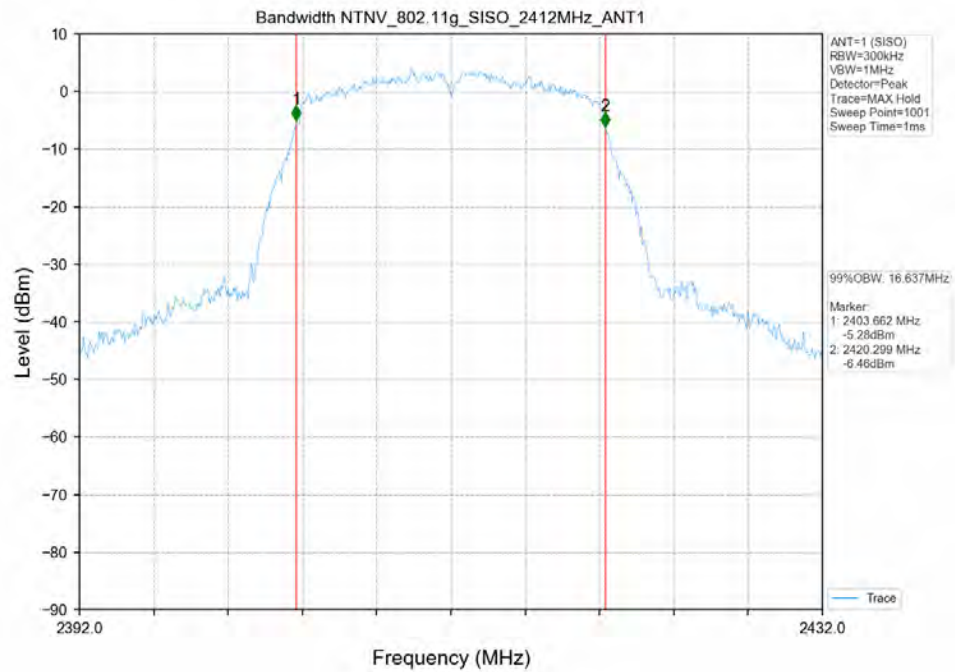


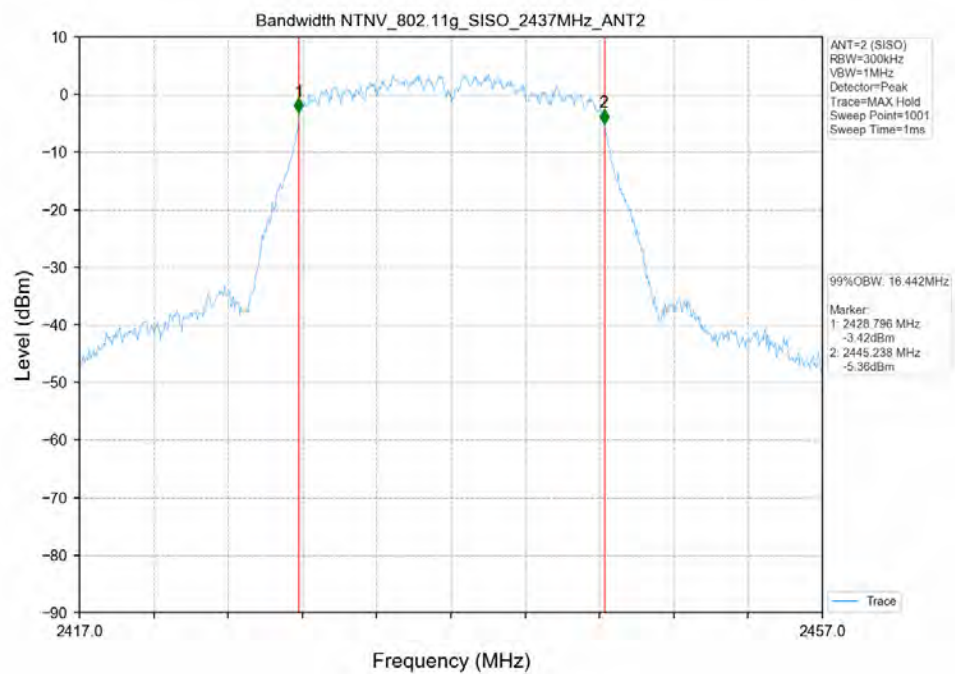
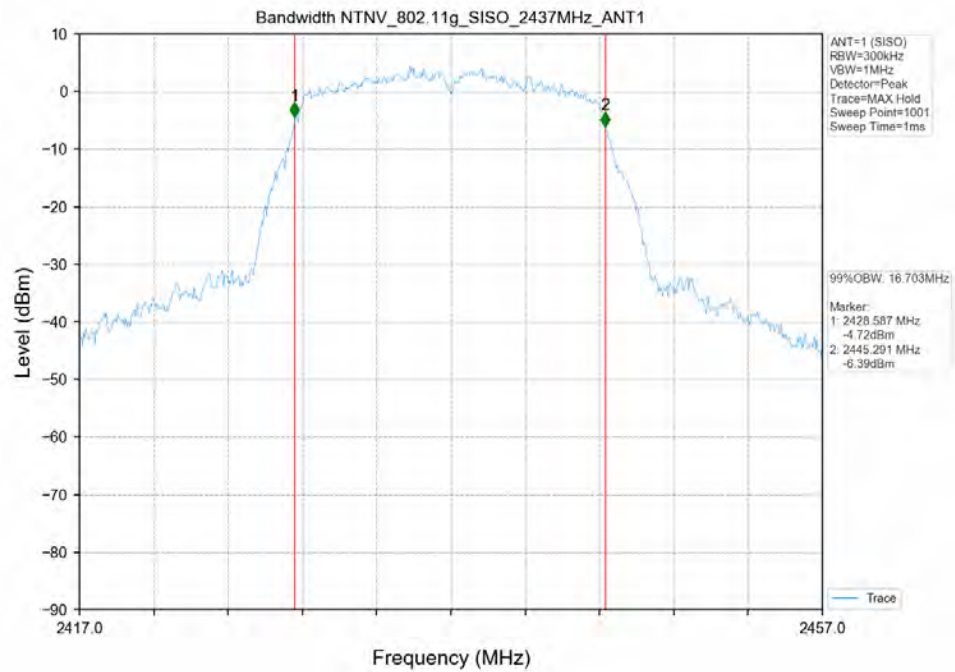
2.3 Test Graph - 99% Occupied Bandwidth

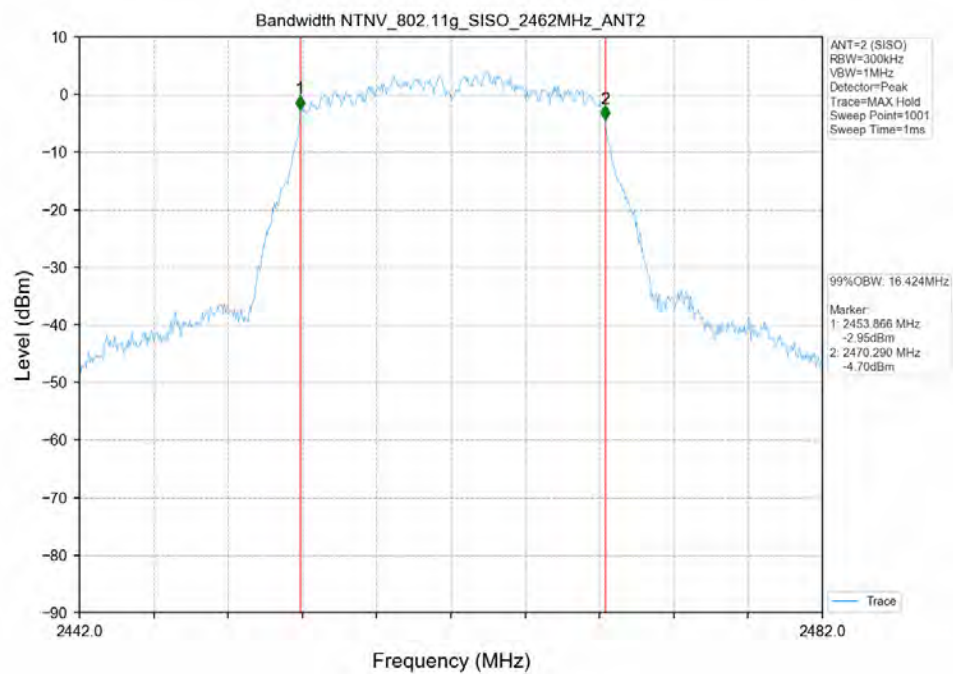
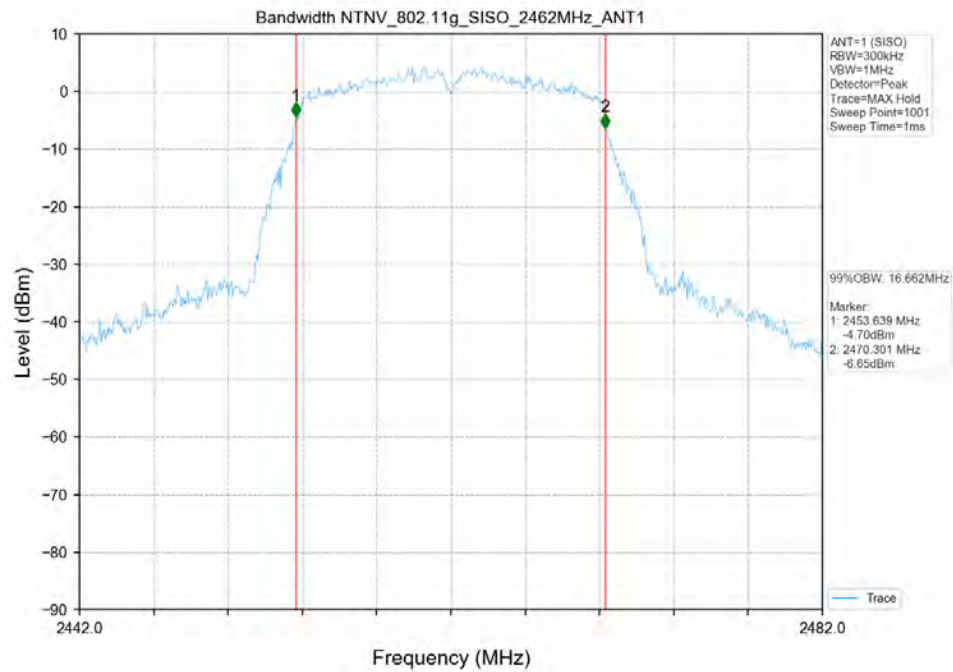


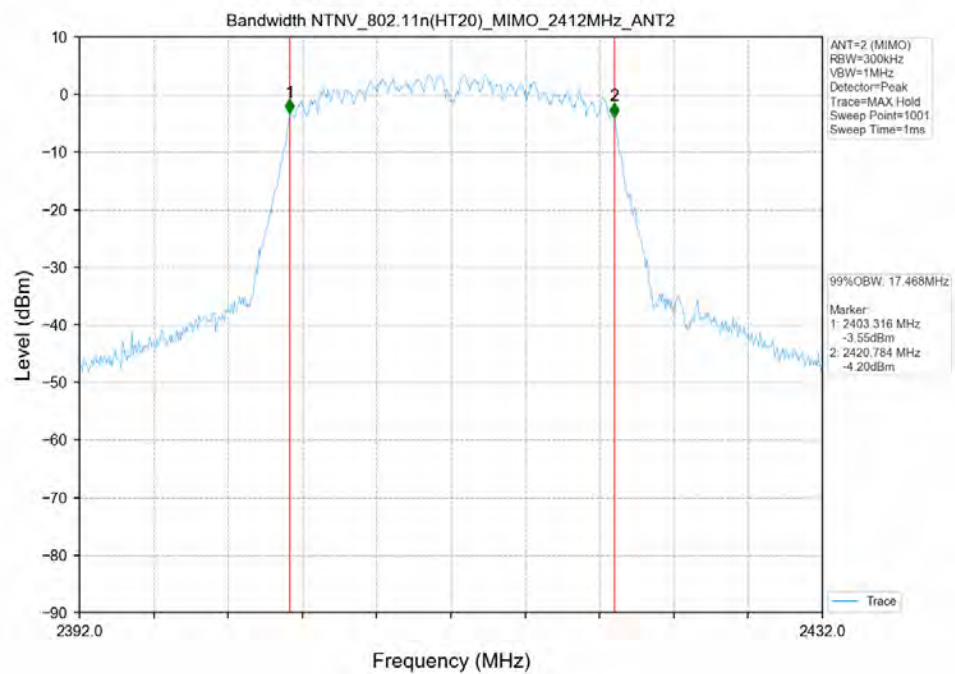
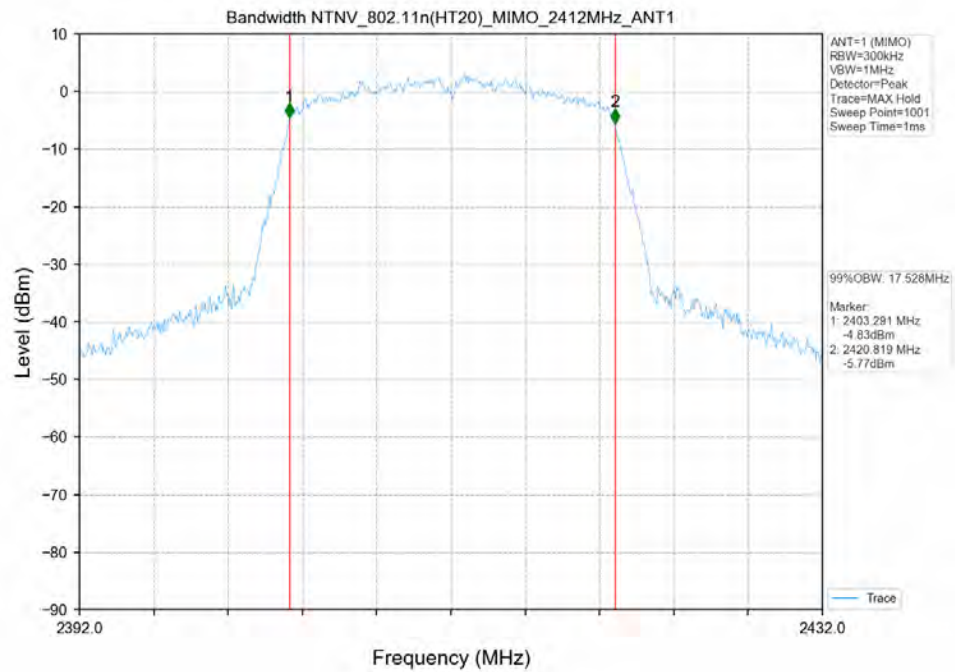


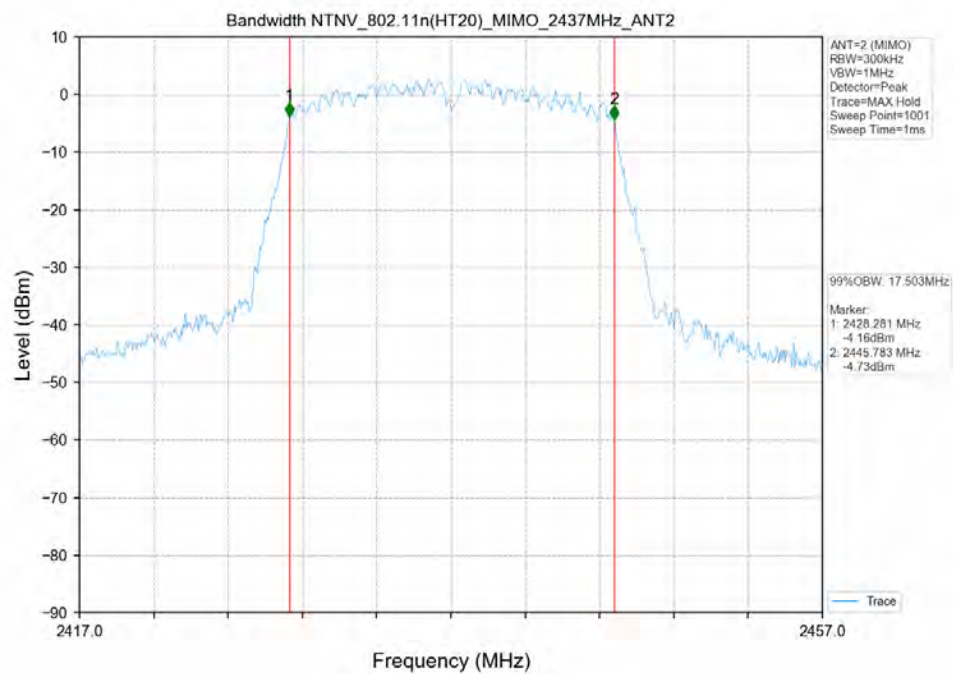
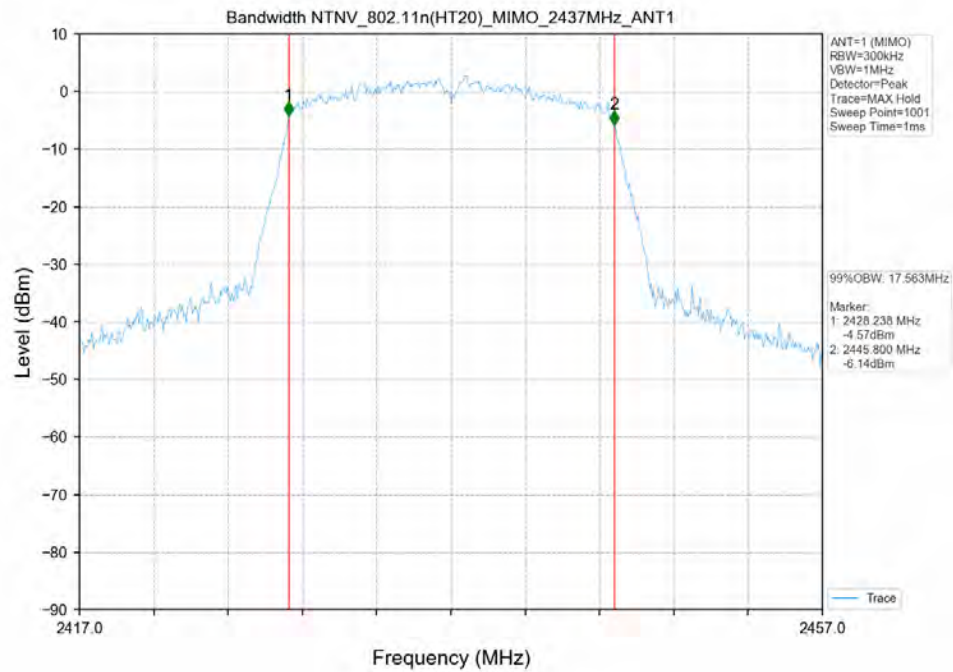


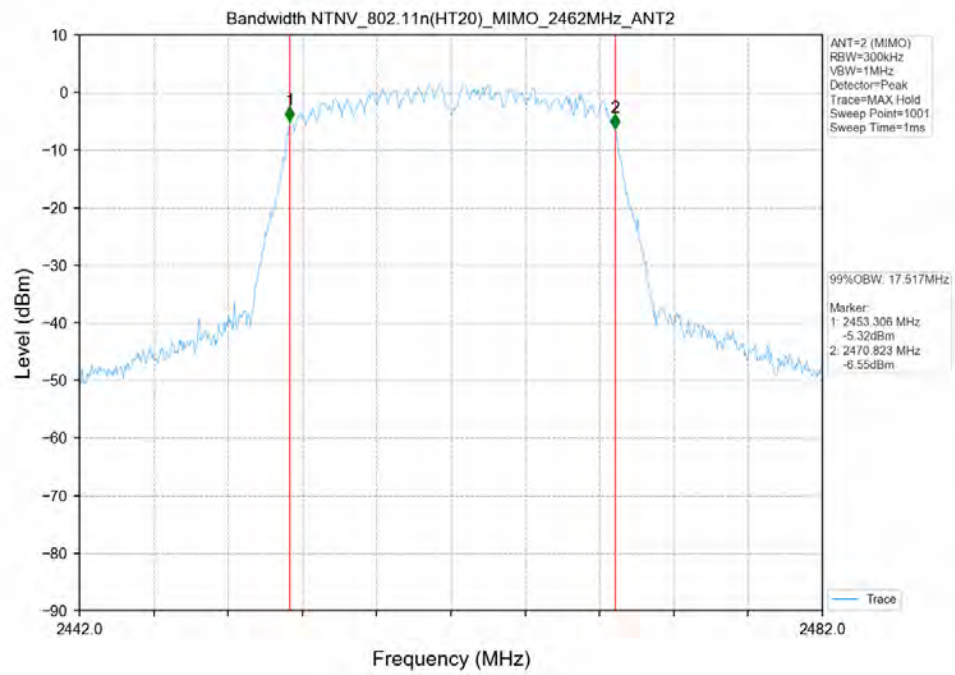
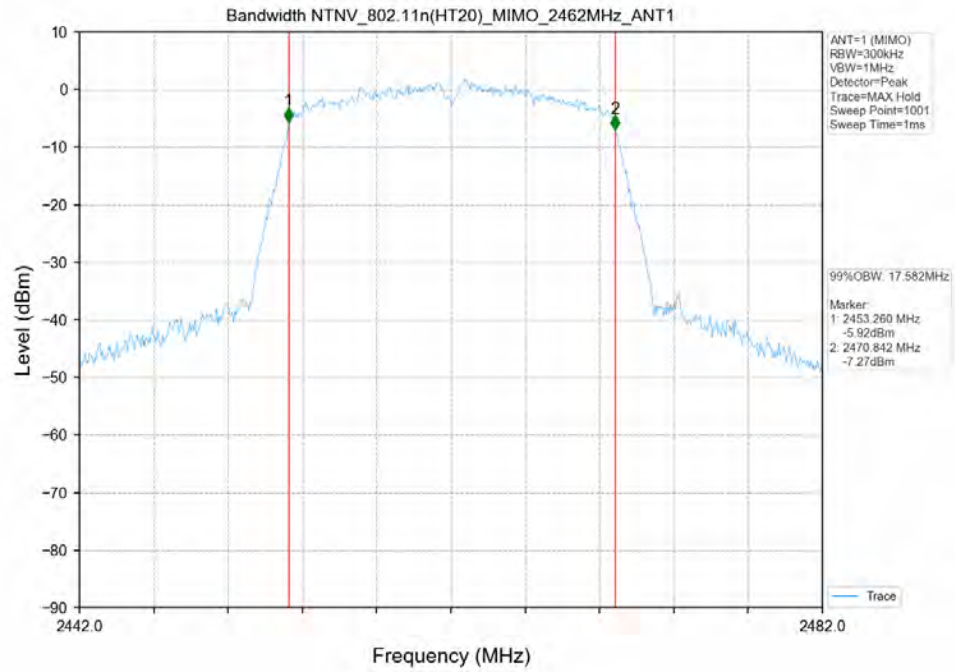










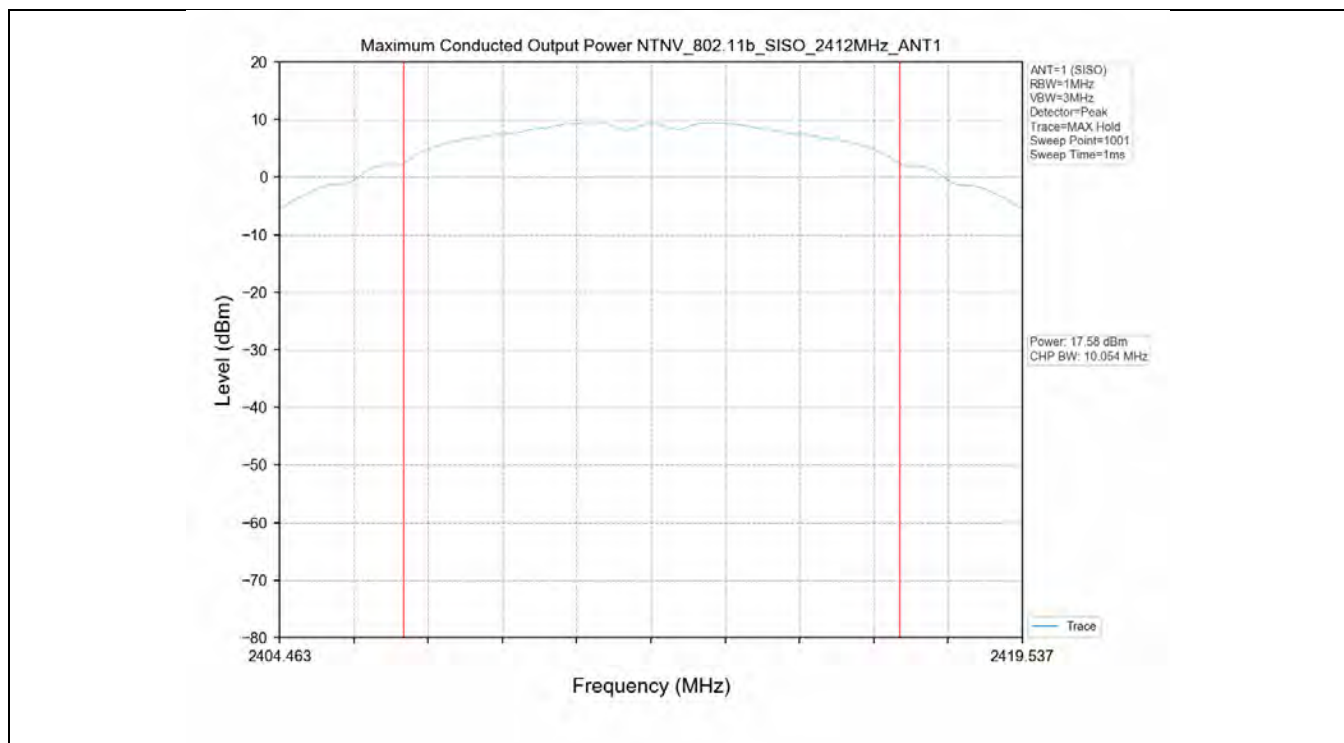


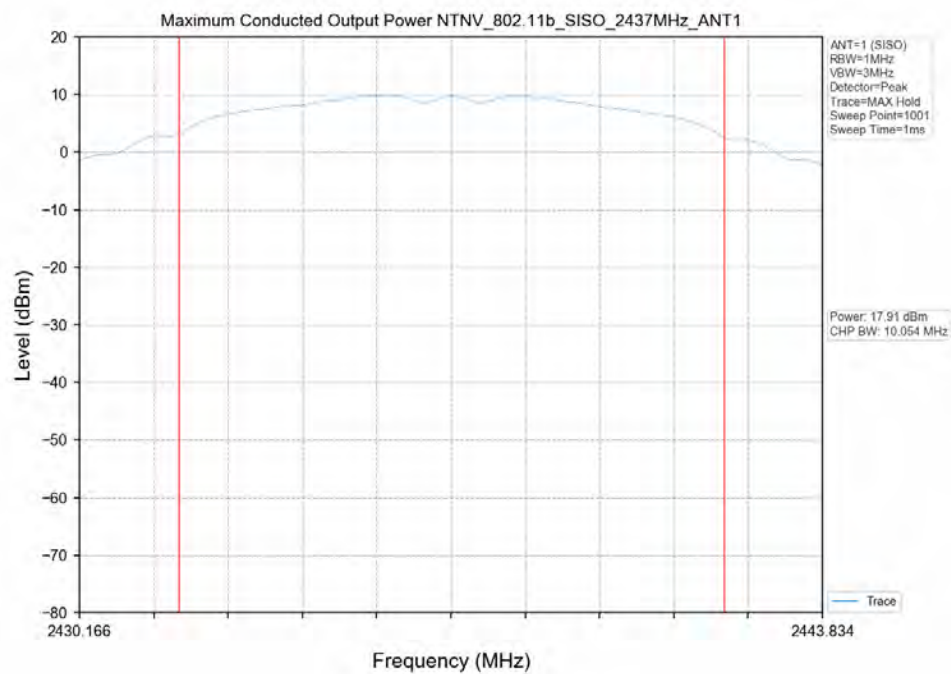
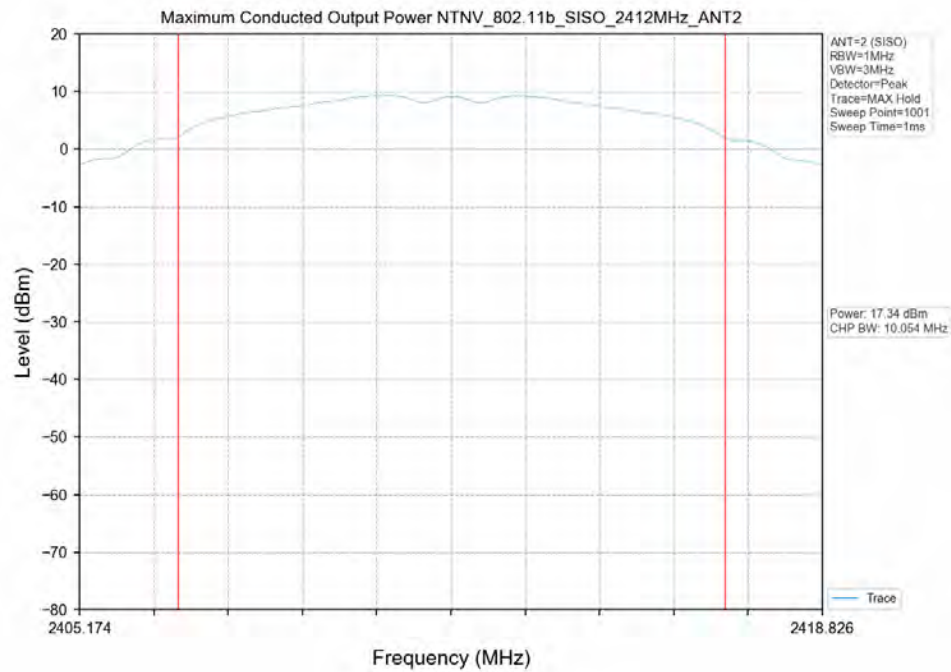
3. Maximum Conducted Output Power

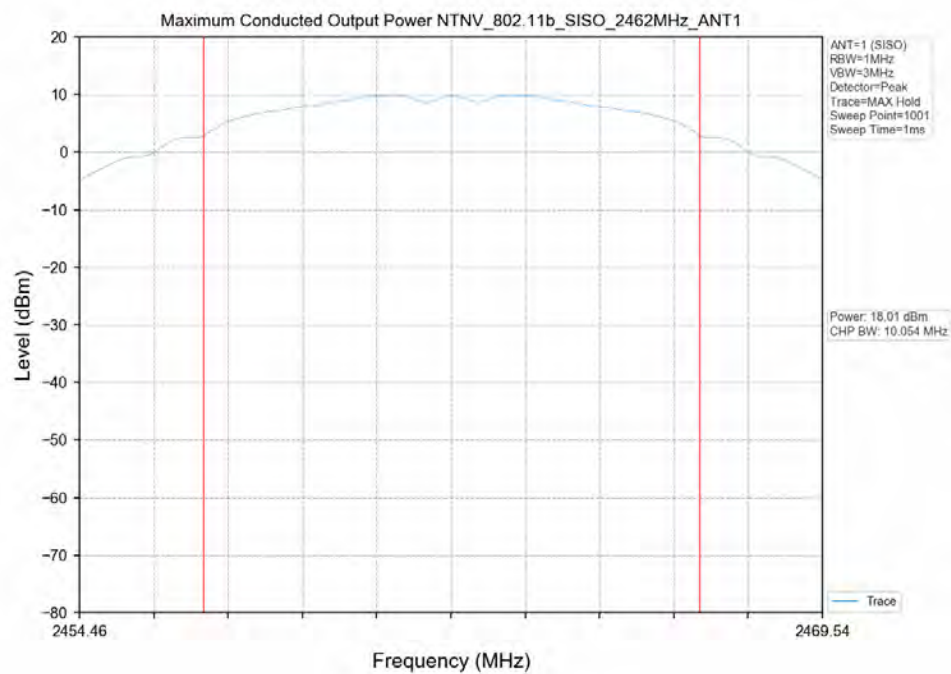
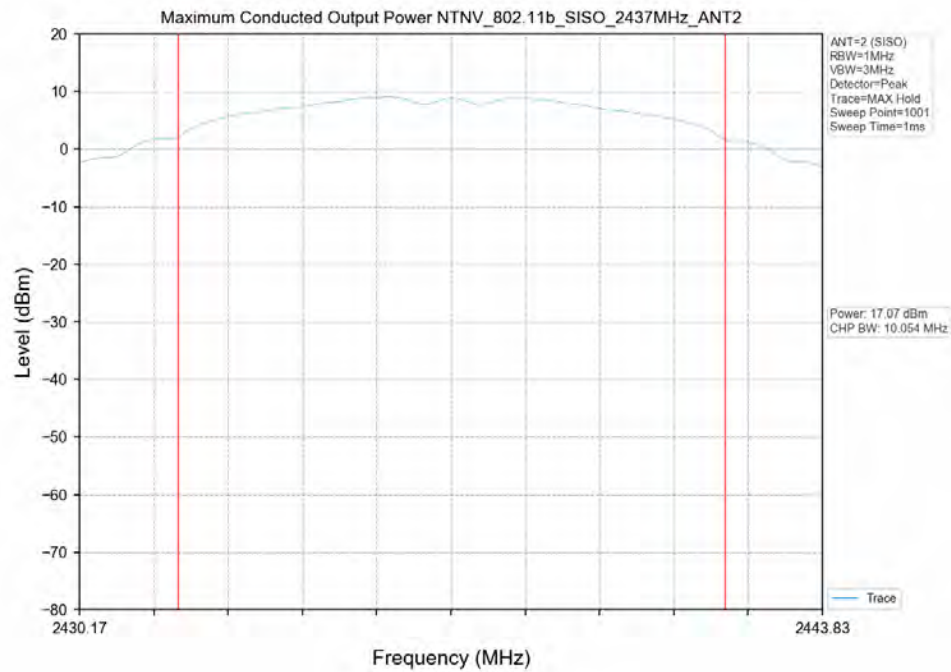
3.1 Test Result

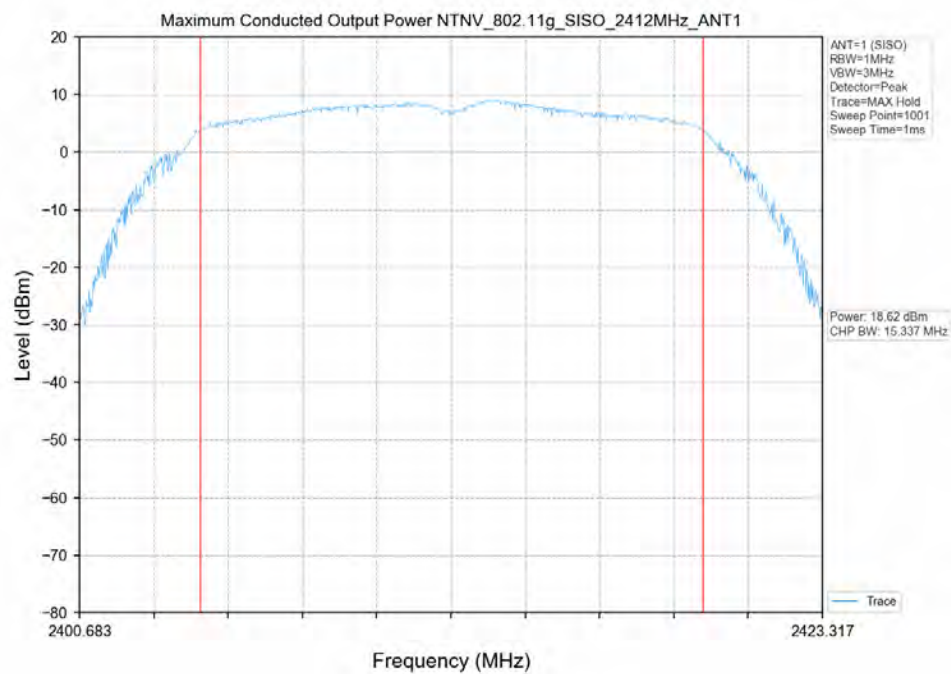
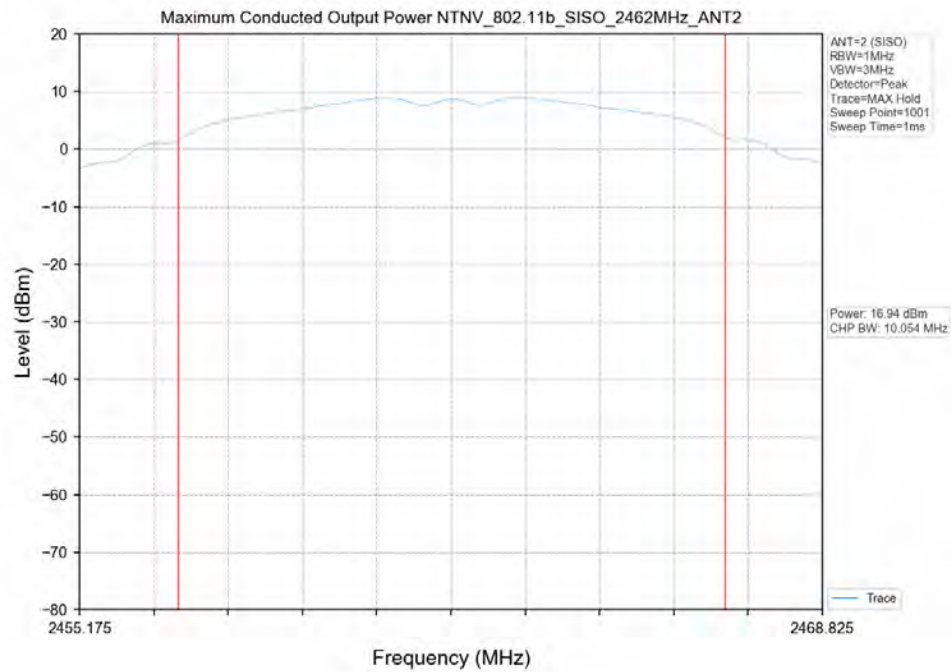
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.58	17.34	/	30	PASS
	2437	SISO	17.91	17.07	/	30	PASS
	2462	SISO	18.01	16.94	/	30	PASS
802.11g	2412	SISO	18.62	18.43	/	30	PASS
	2437	SISO	18.61	18.17	/	30	PASS
	2462	SISO	18.64	18.14	/	30	PASS
802.11n(HT20)	2412	MIMO	15.31	15.28	18.31	30	PASS
	2437	MIMO	15.35	15.13	18.25	30	PASS
	2462	MIMO	15.46	14.99	18.24	30	PASS

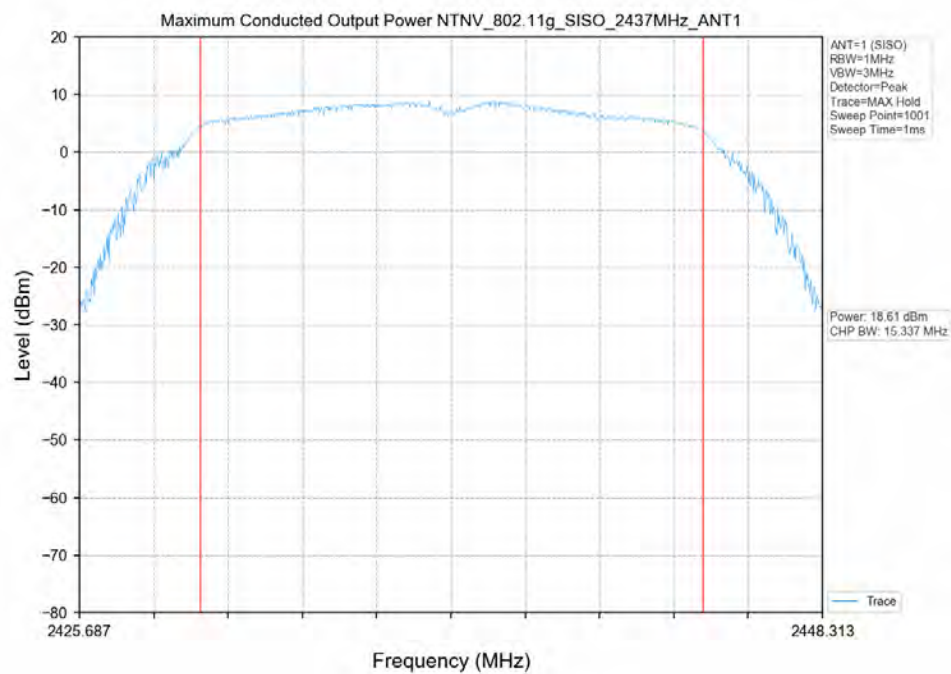
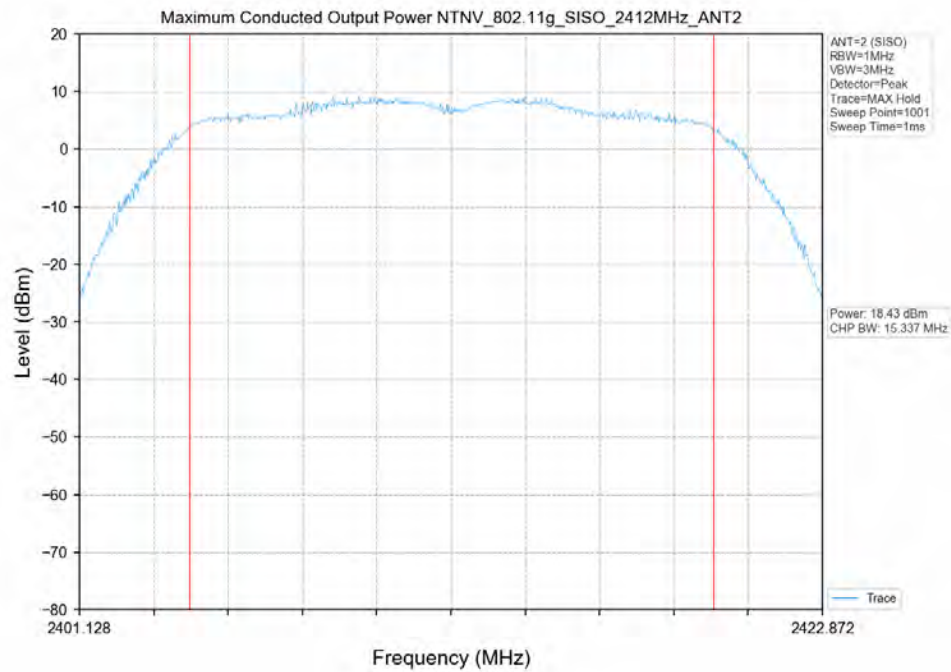
3.2 Test Graph

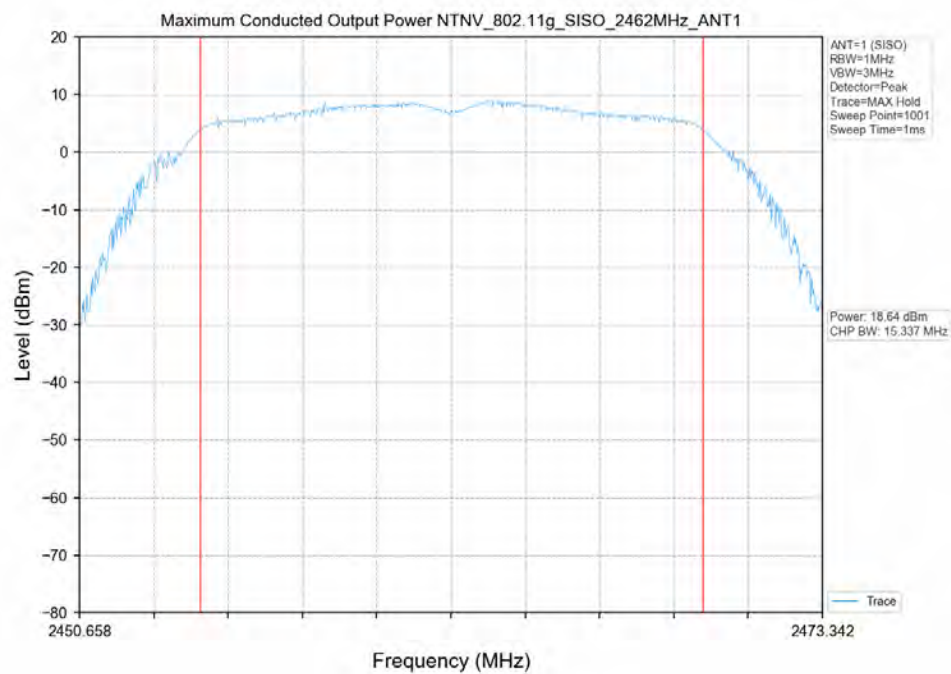
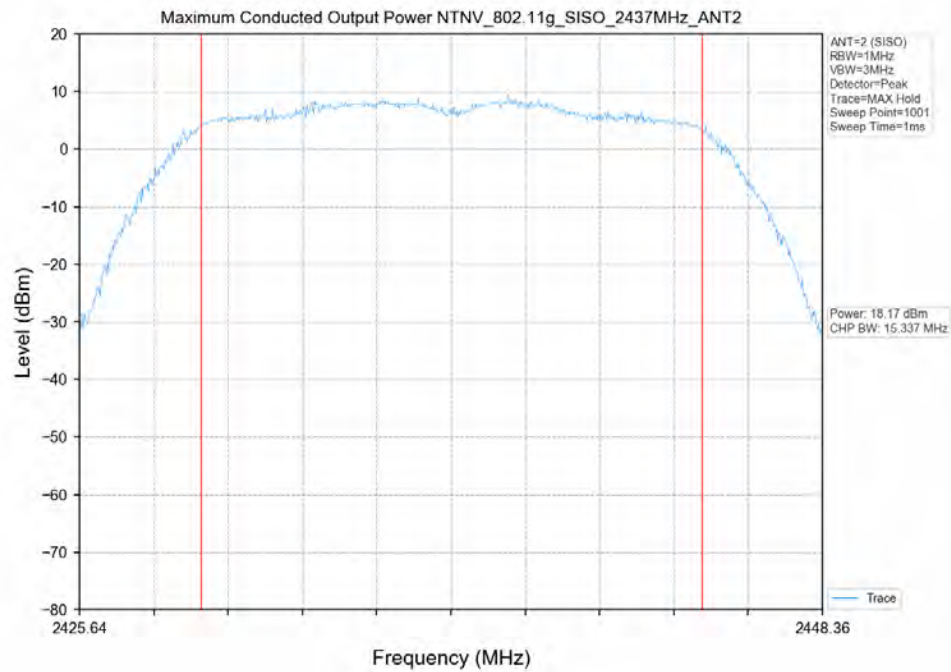


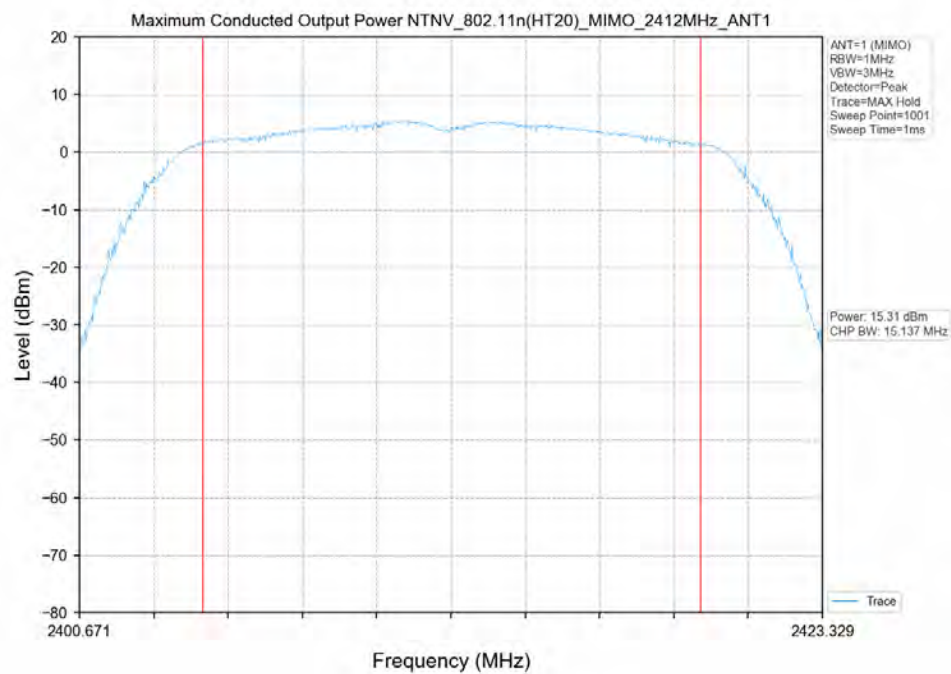
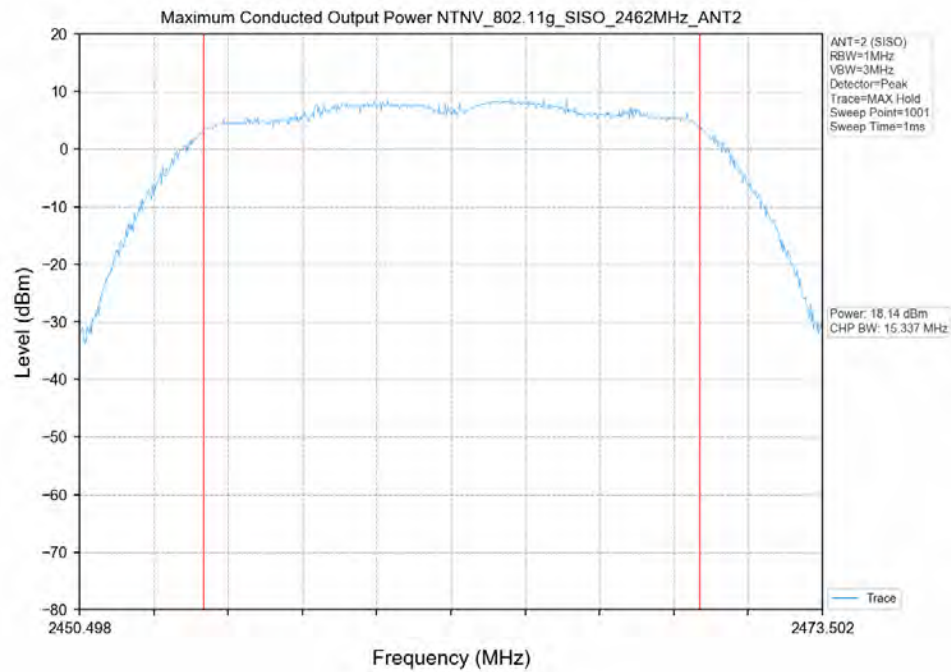


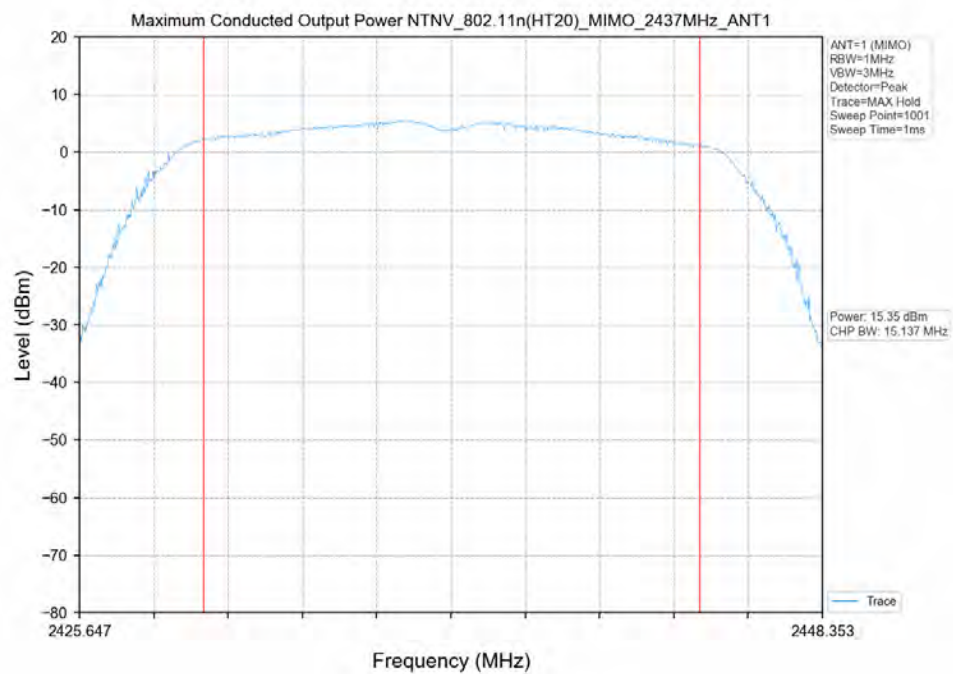
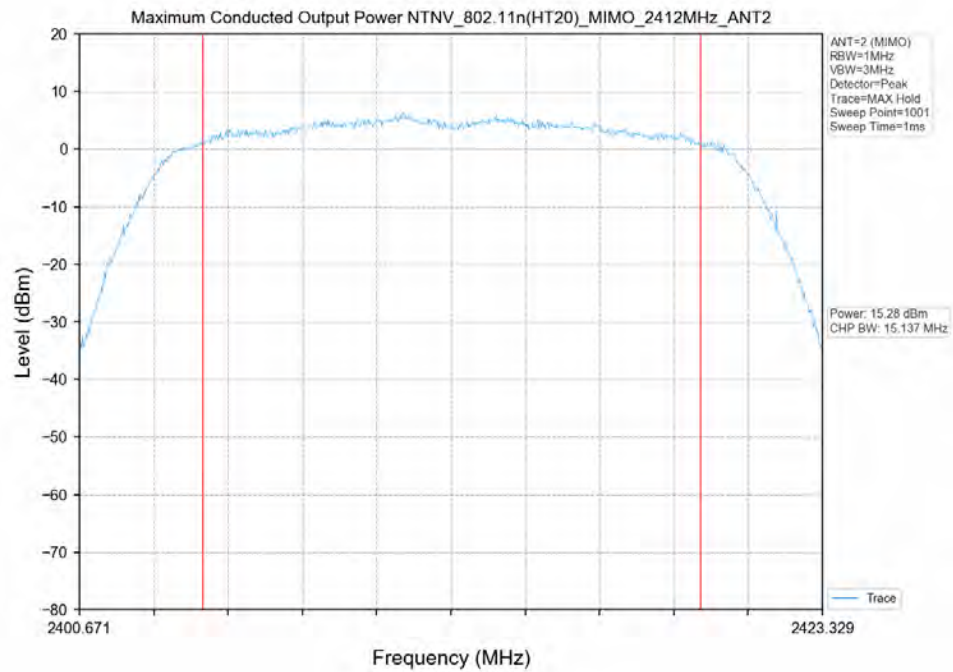


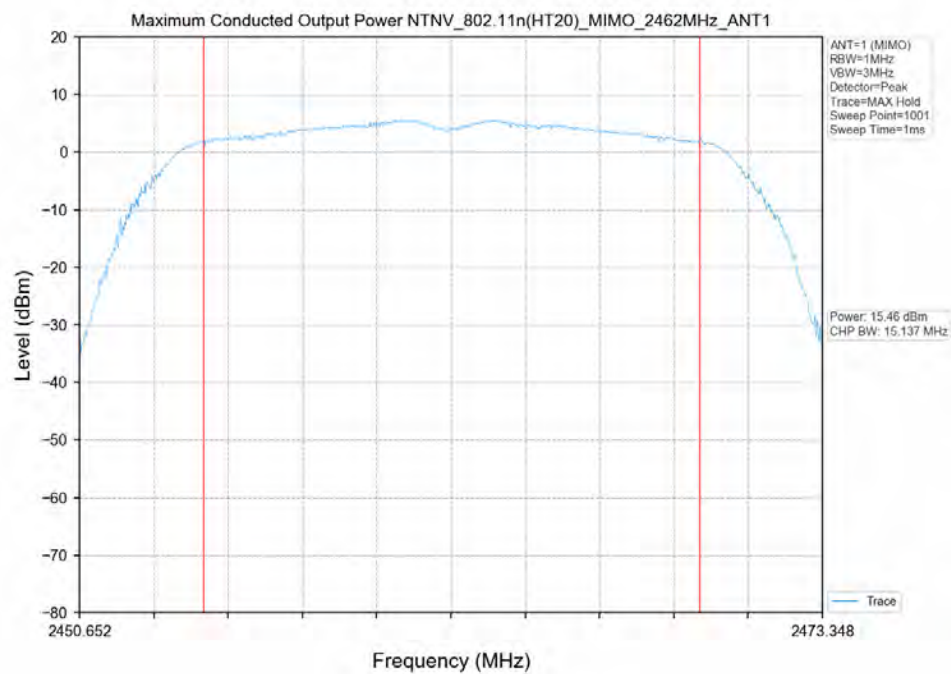
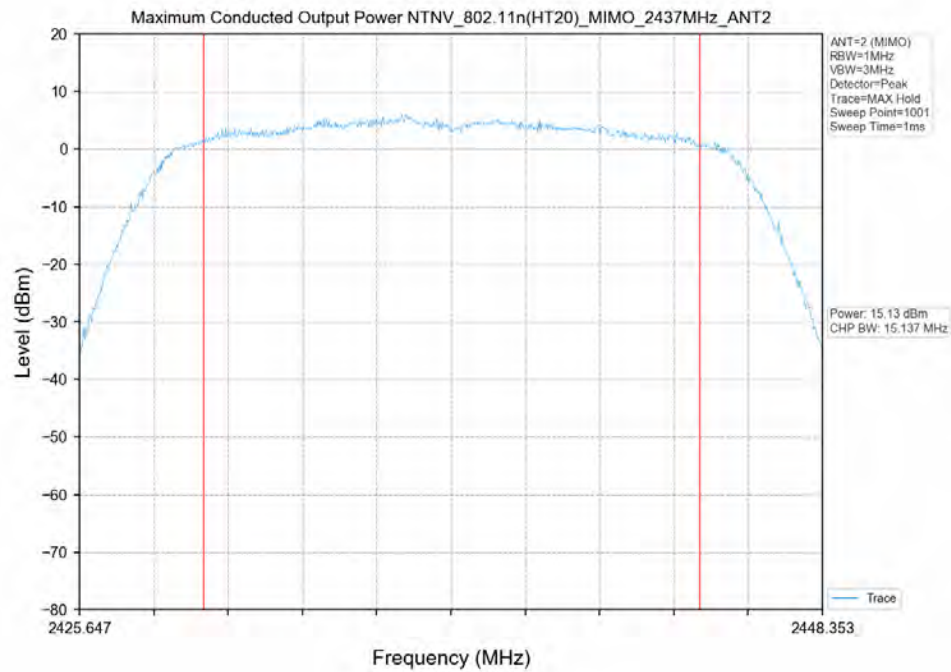


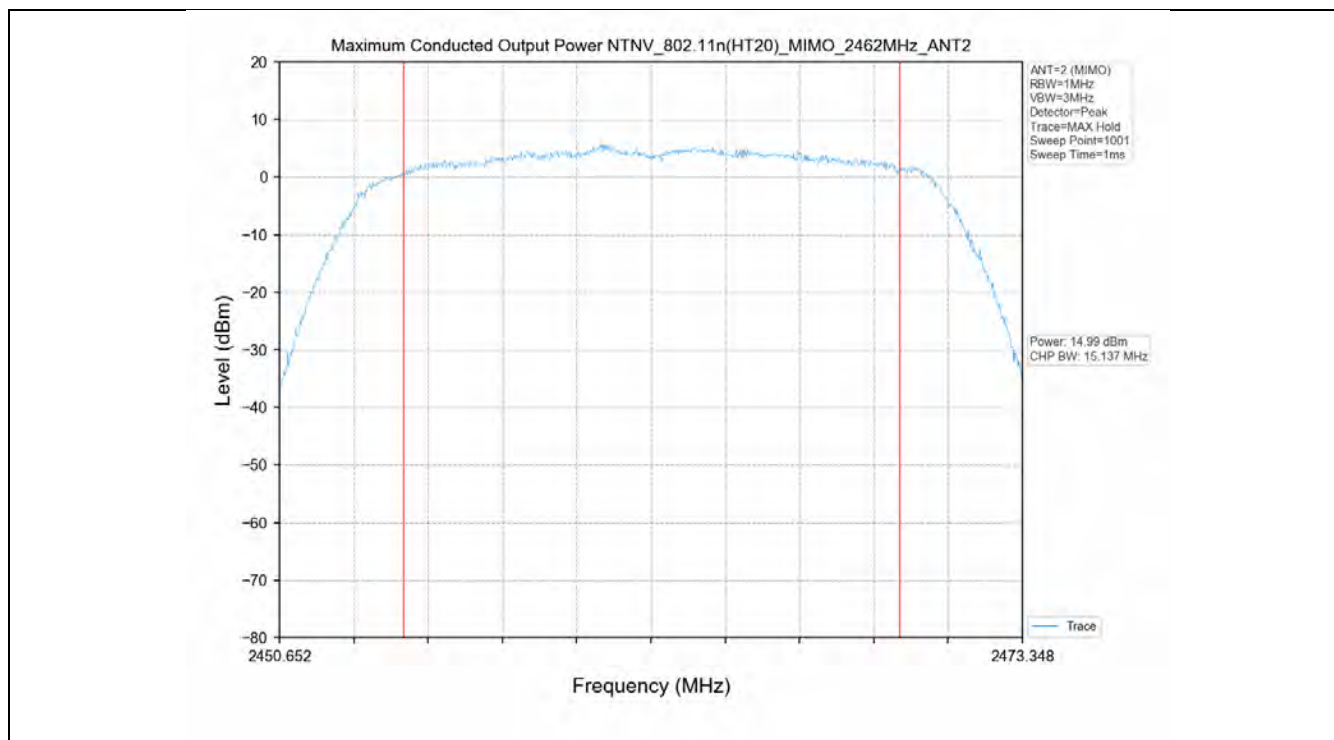










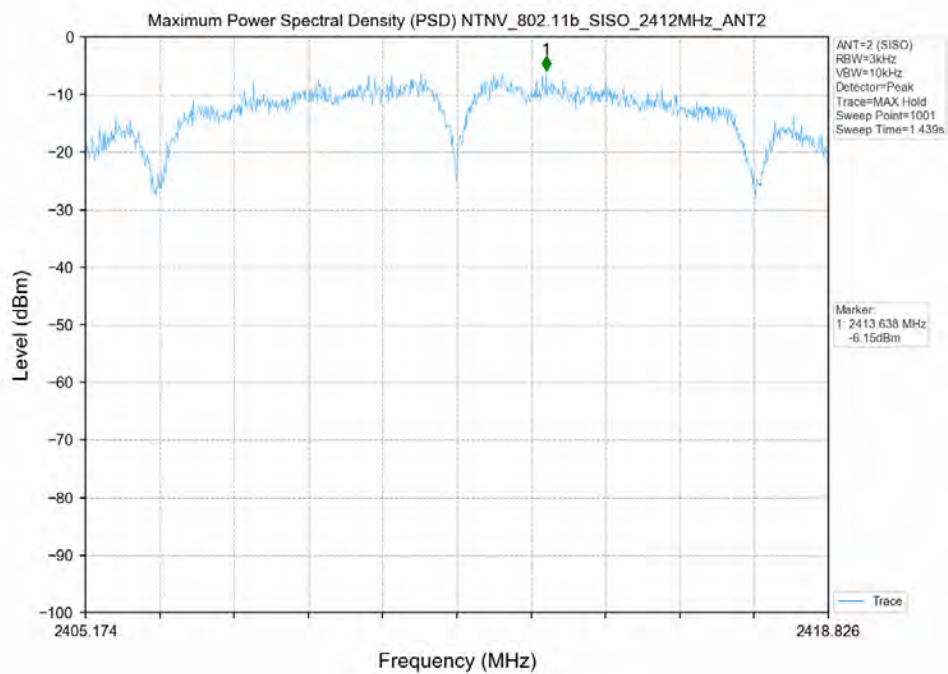
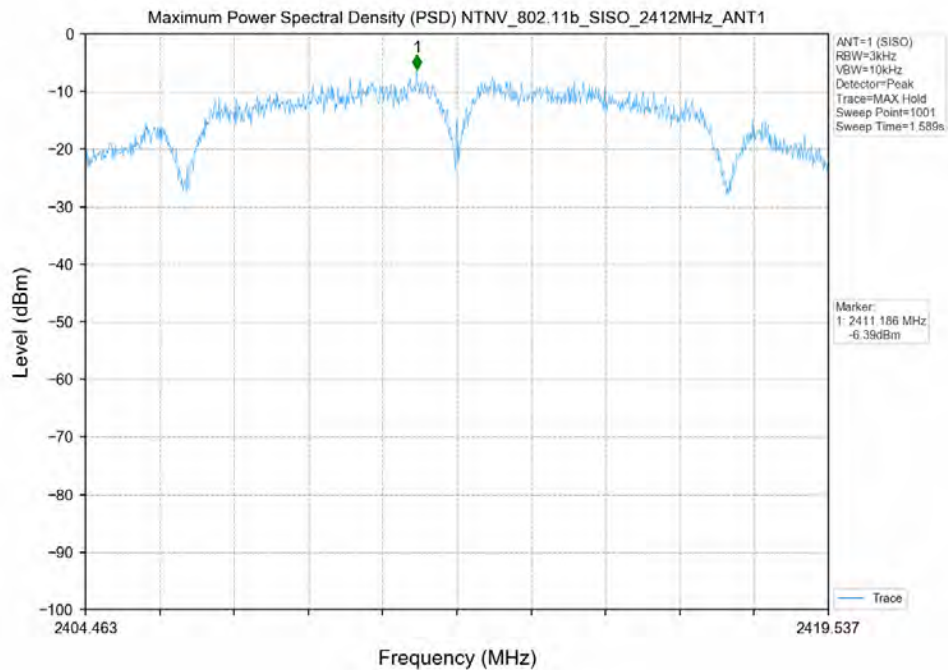


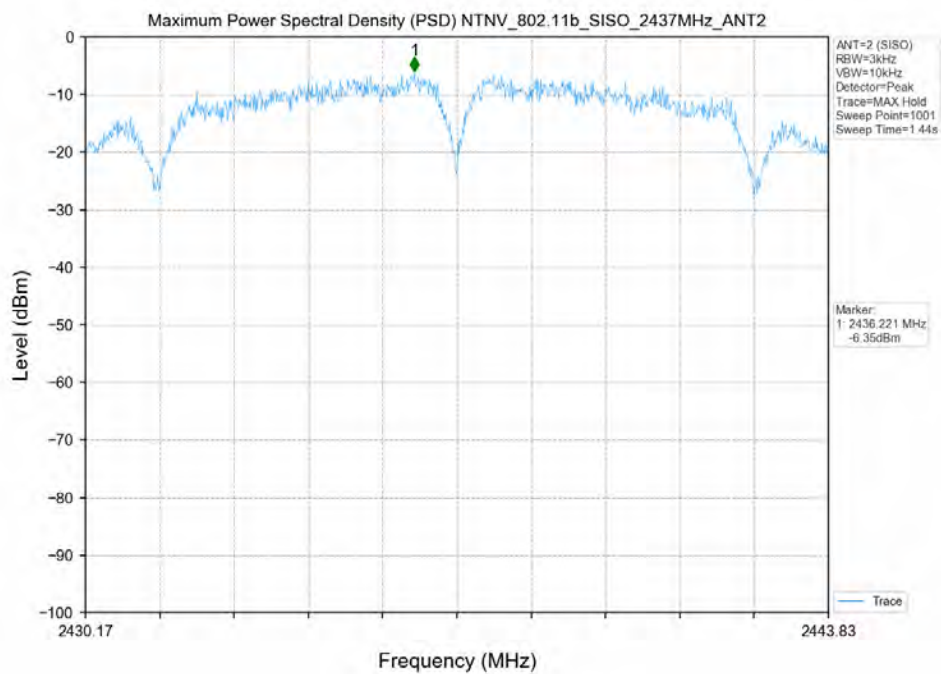
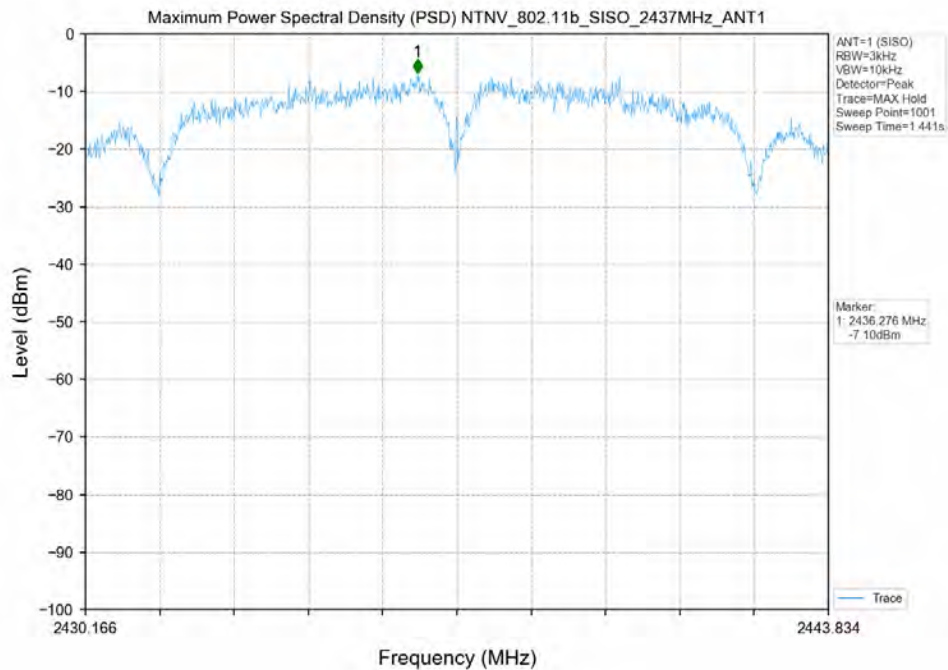
4. Maximum Power Spectral Density (PSD)

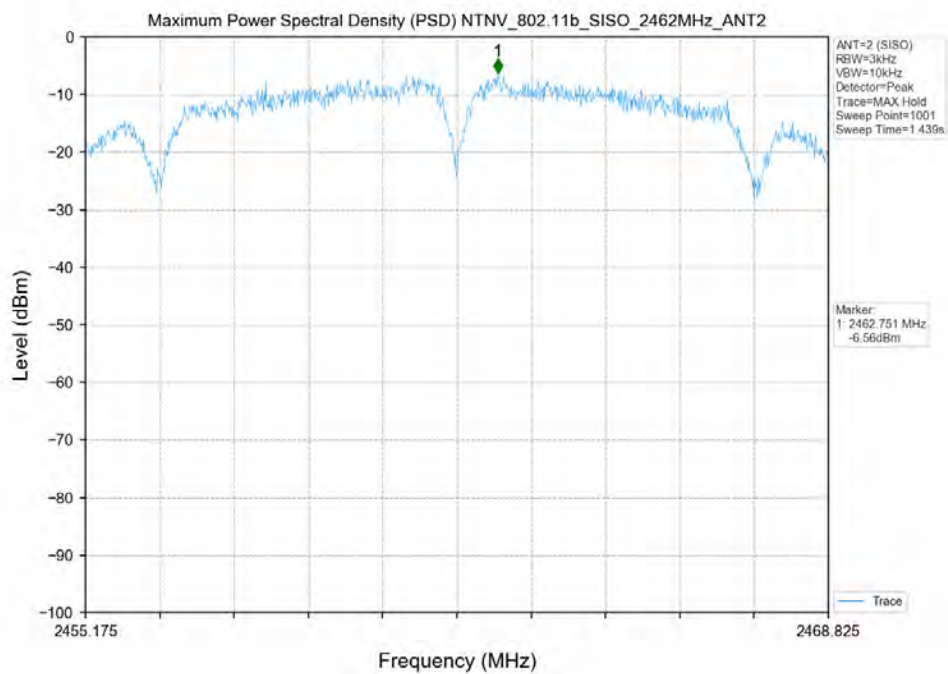
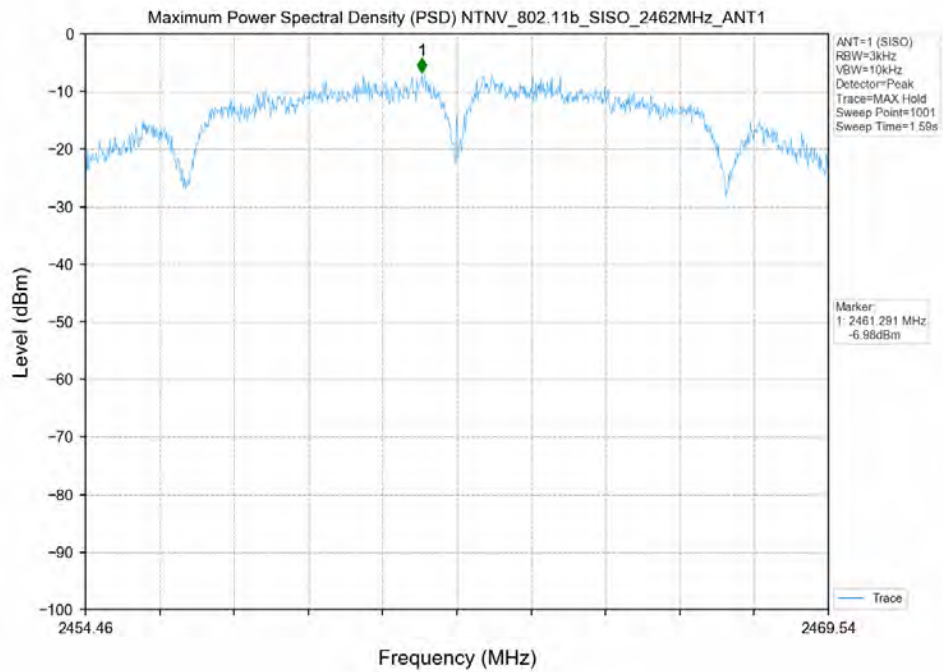
4.1 Test Result

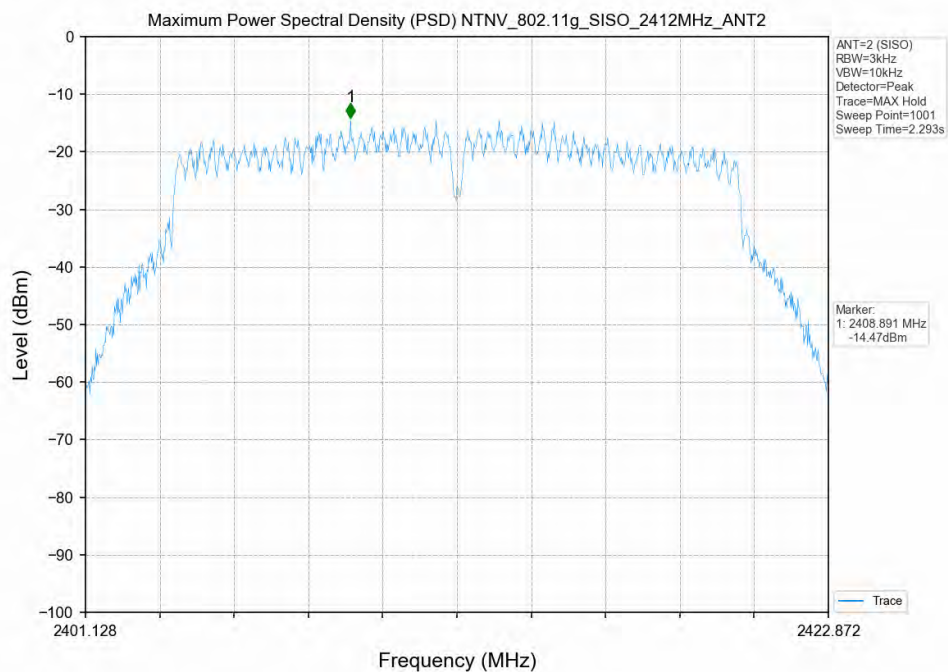
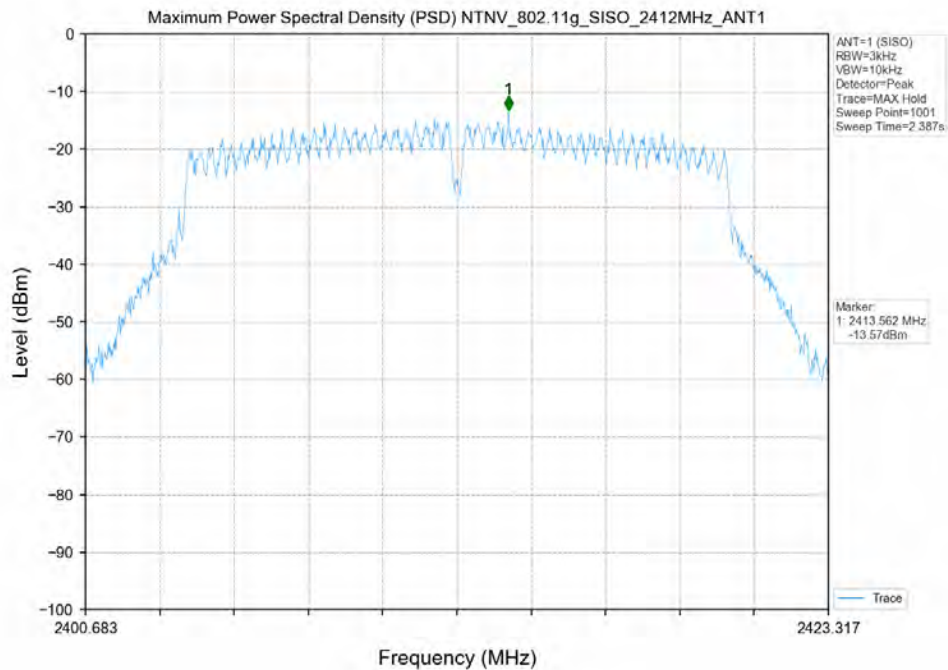
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-6.39	-6.15	/	≤8	PASS
	2437	SISO	-7.10	-6.35	/	≤8	PASS
	2462	SISO	-6.98	-6.56	/	≤8	PASS
802.11g	2412	SISO	-13.57	-14.47	/	≤8	PASS
	2437	SISO	-13.59	-14.62	/	≤8	PASS
	2462	SISO	-13.63	-14.45	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-15.26	-15.14	-12.58	≤8	PASS
	2437	MIMO	-15.03	-15.41	-13.13	≤8	PASS
	2462	MIMO	-16.52	-16.06	-13.76	≤8	PASS

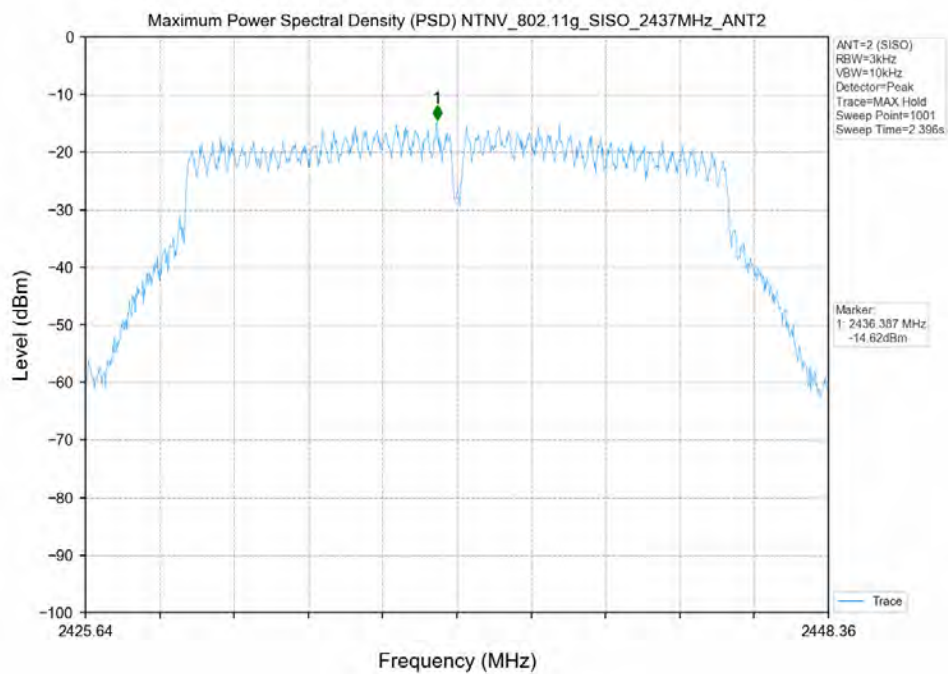
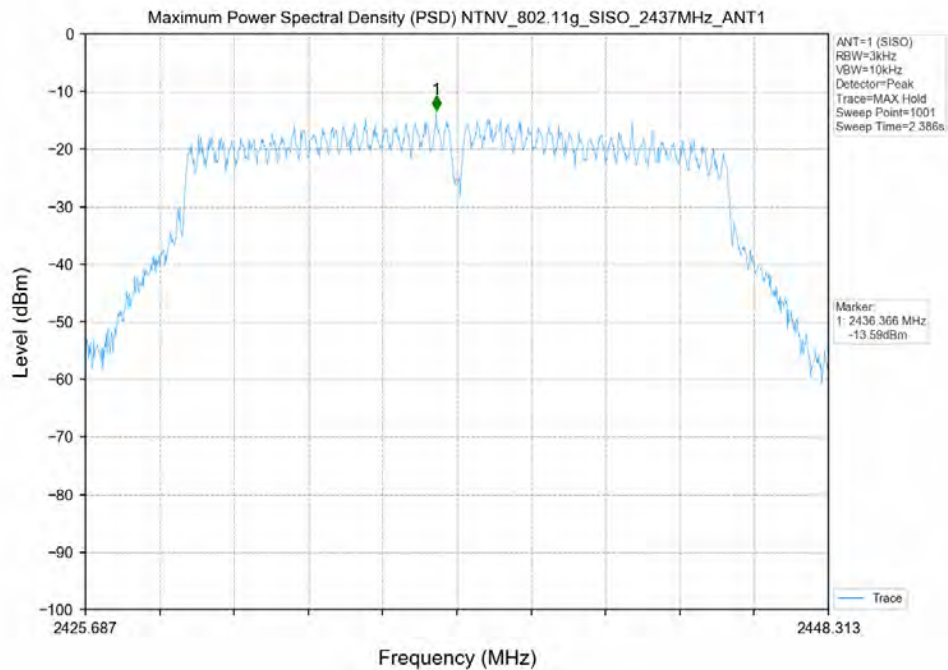
4.2 Test Graph

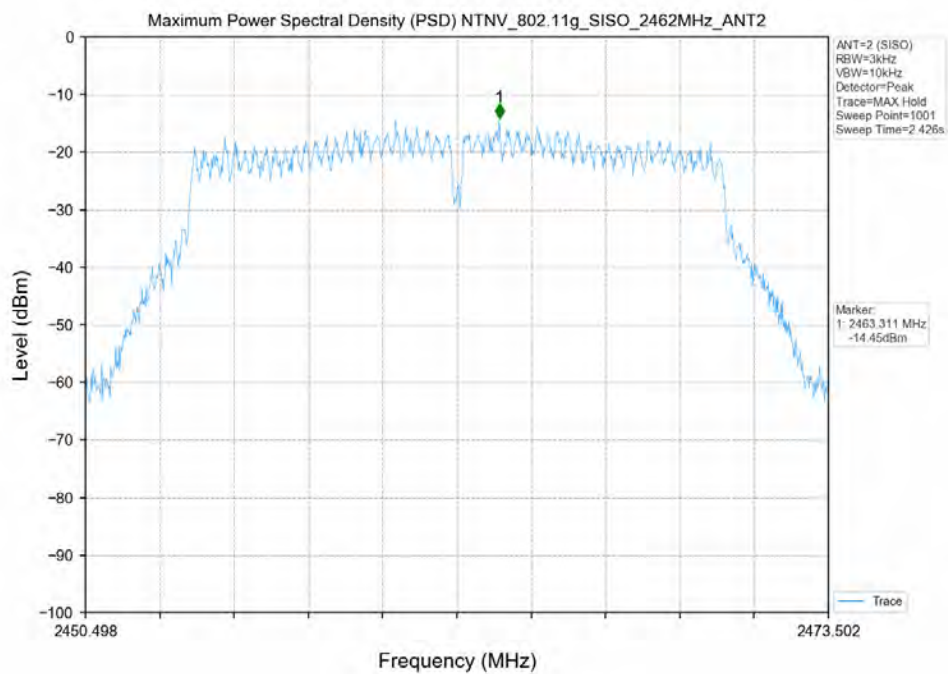
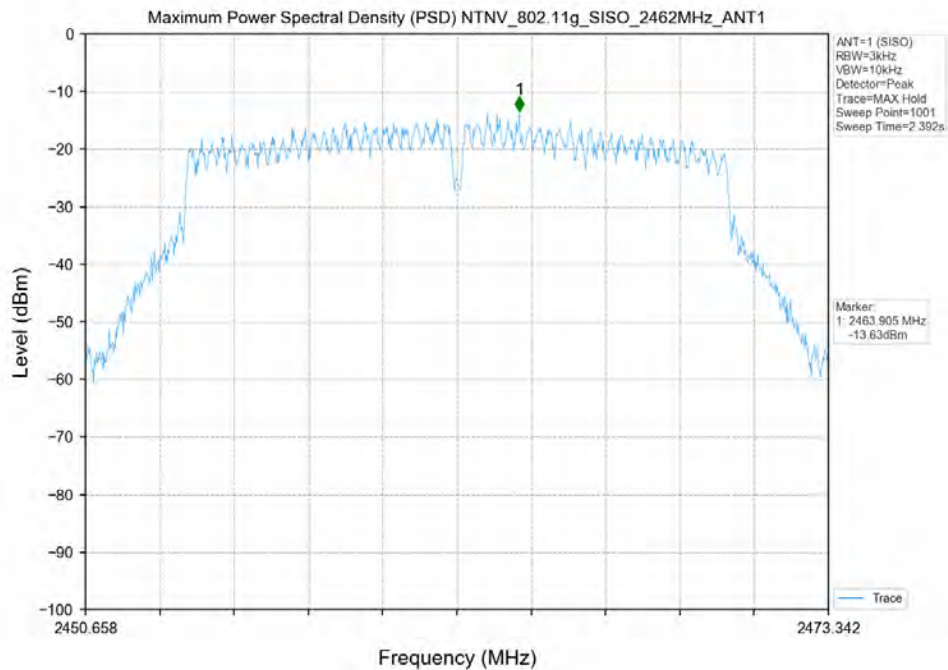


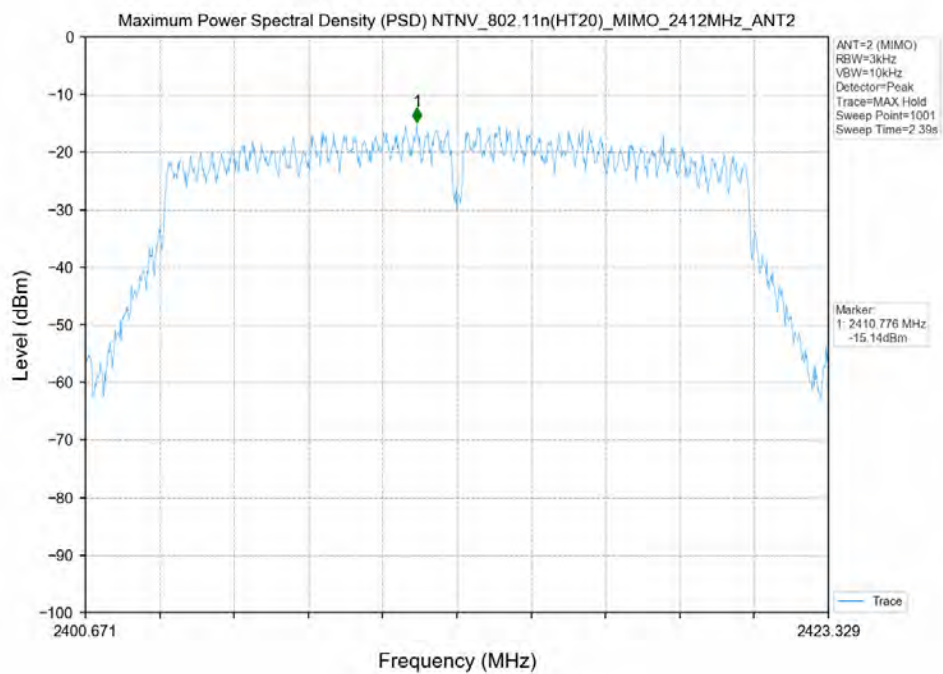
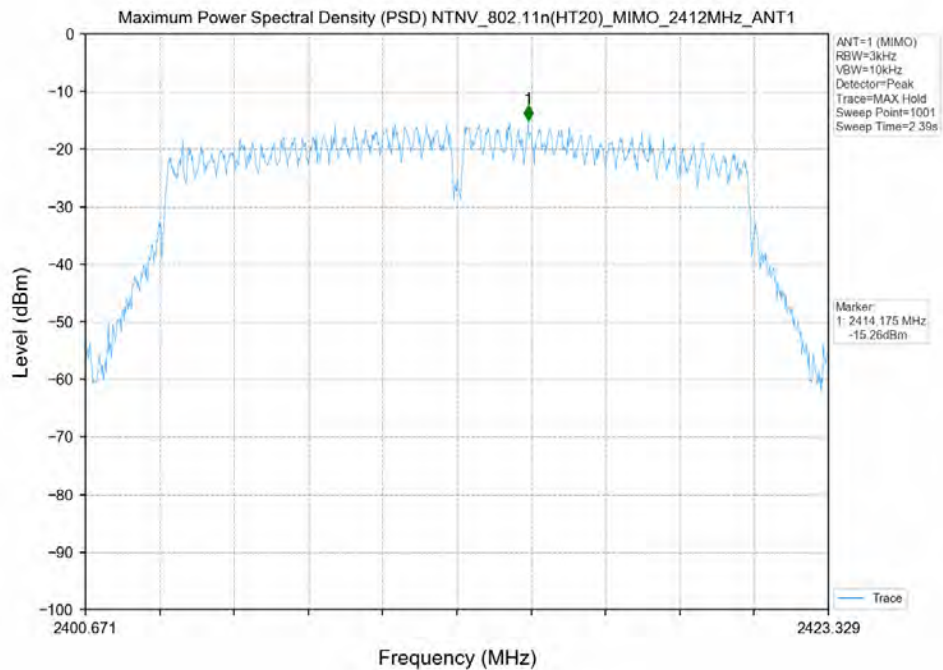


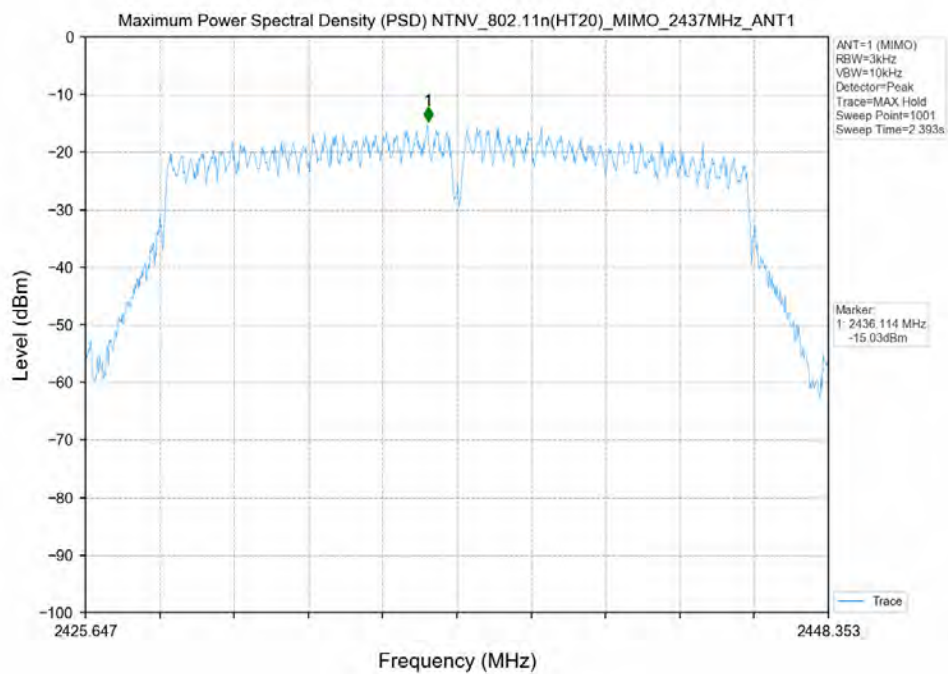
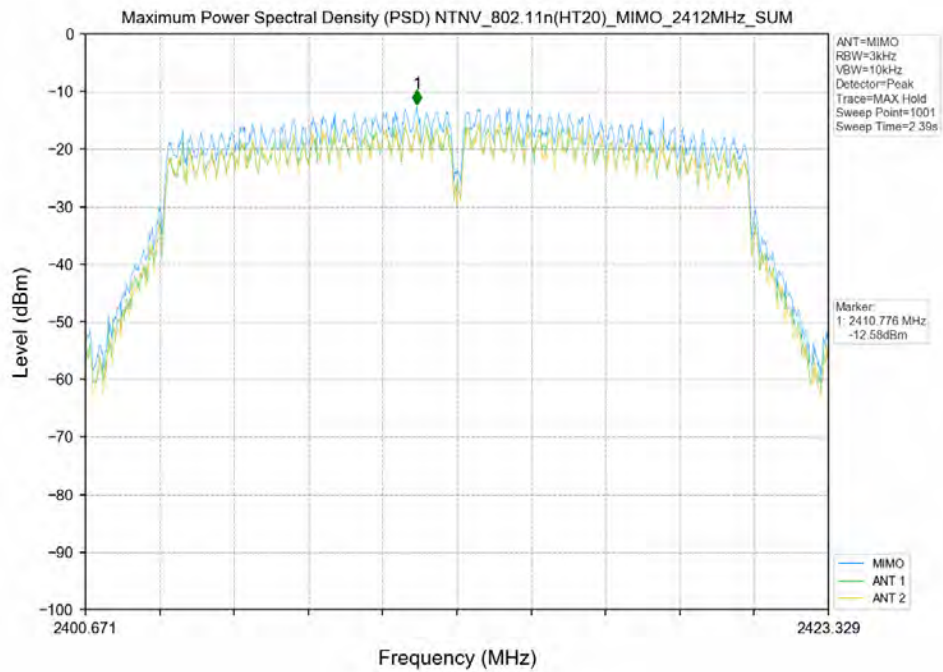


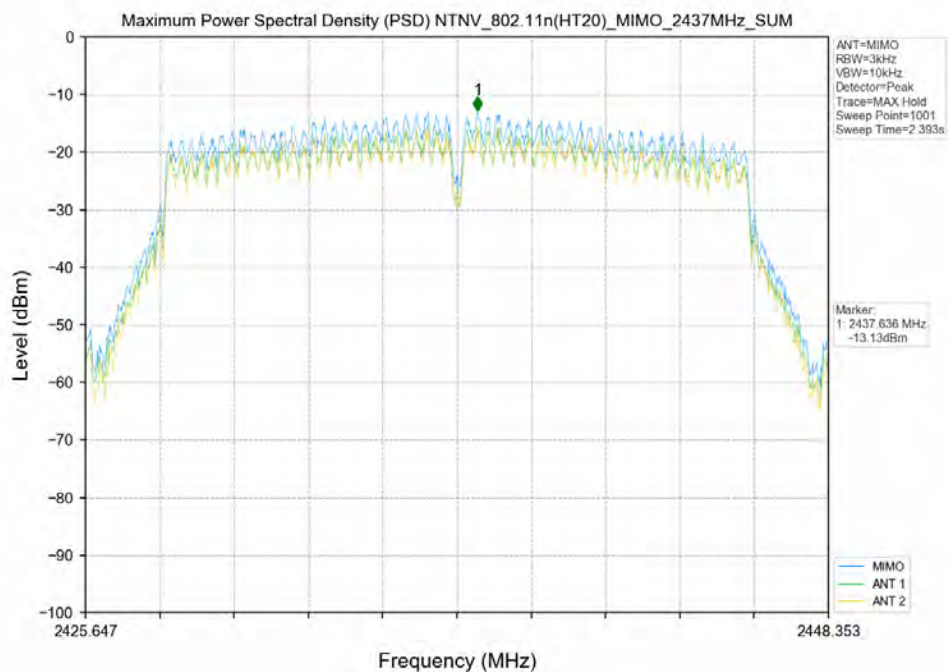
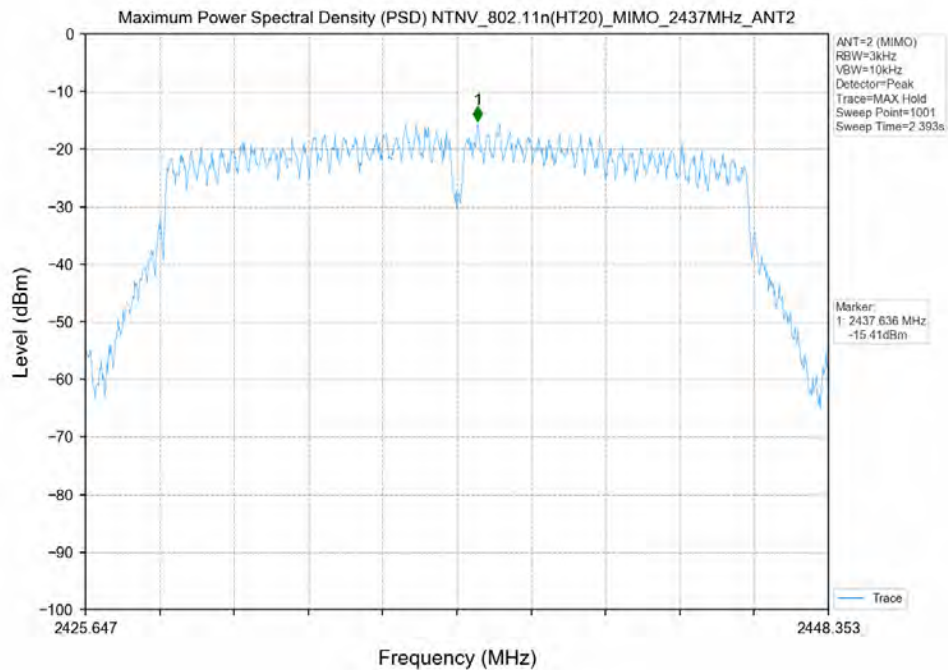


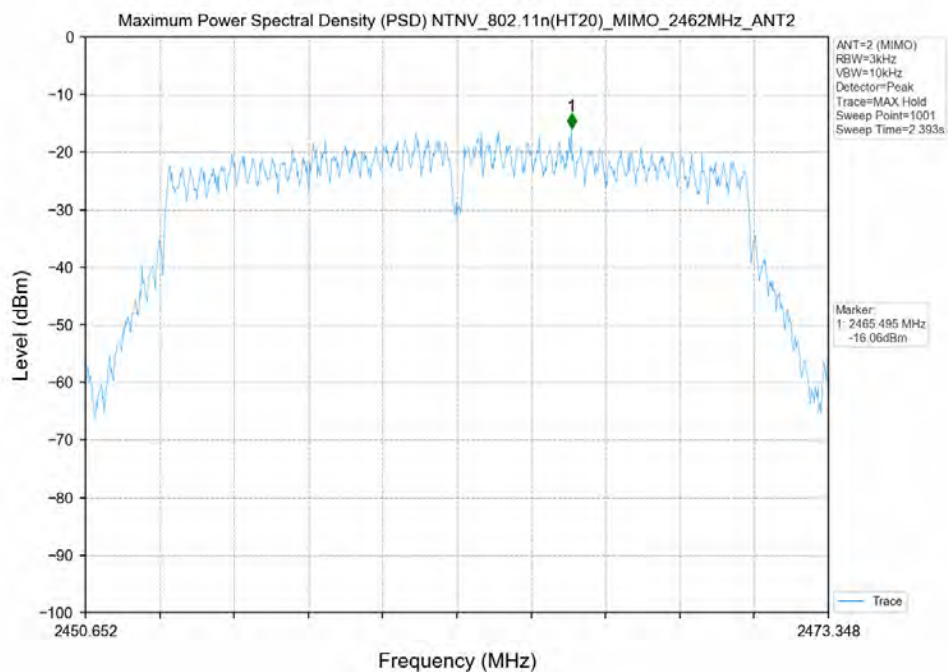
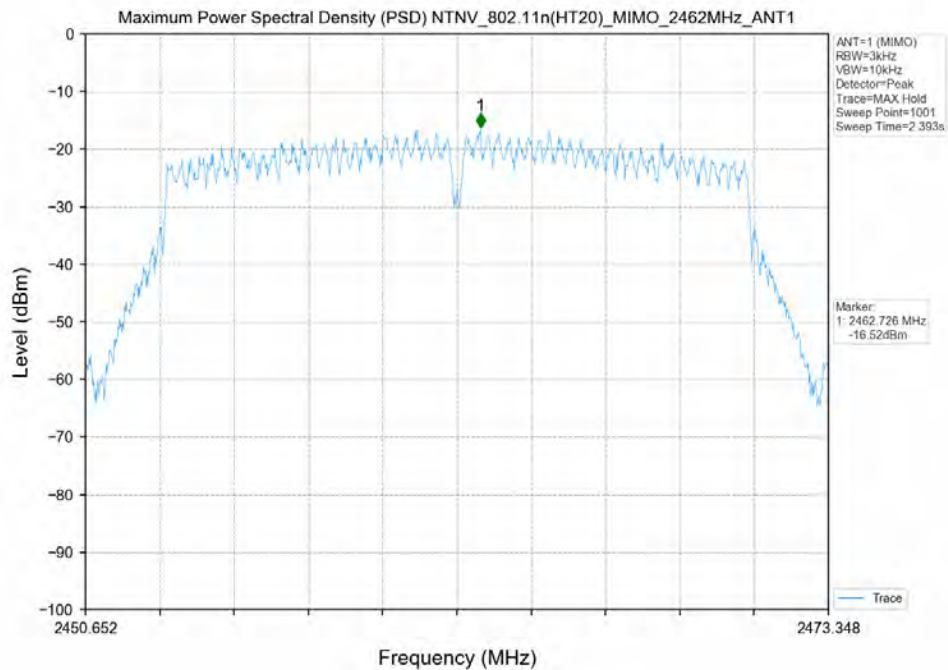


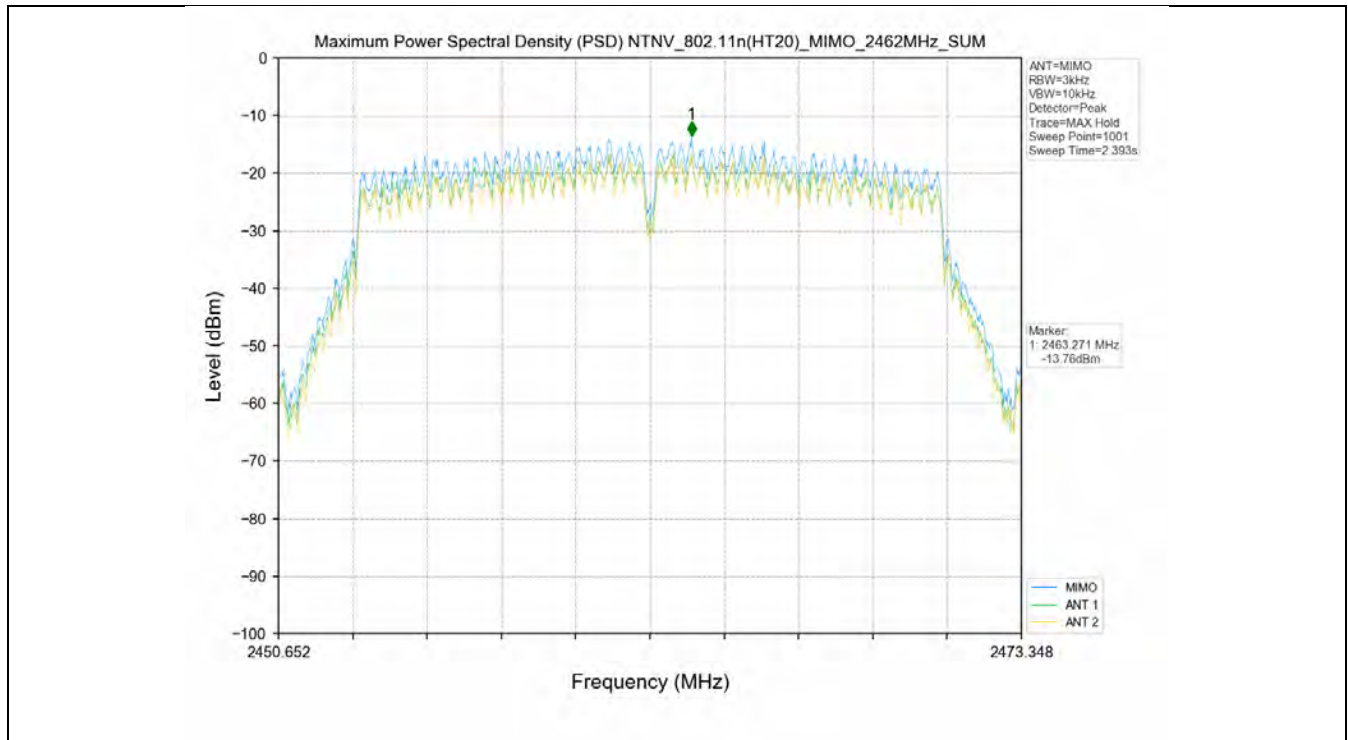










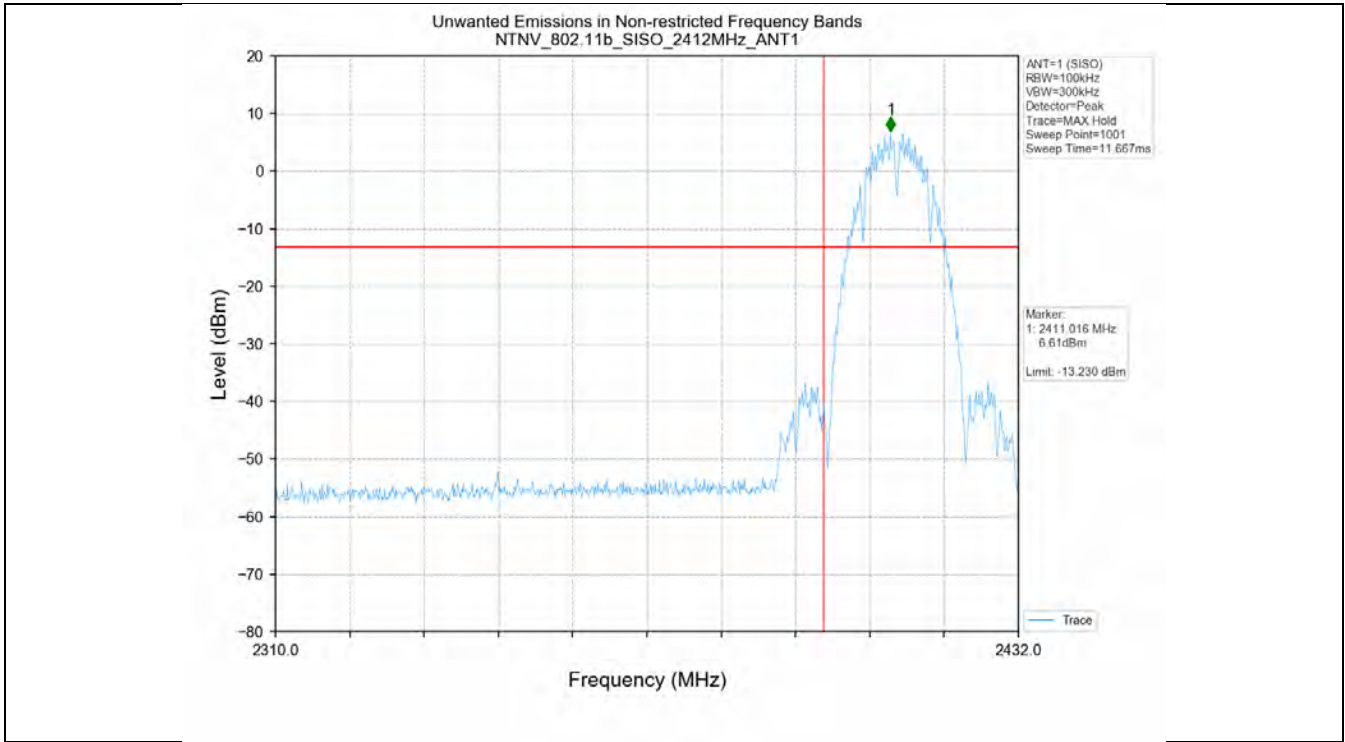
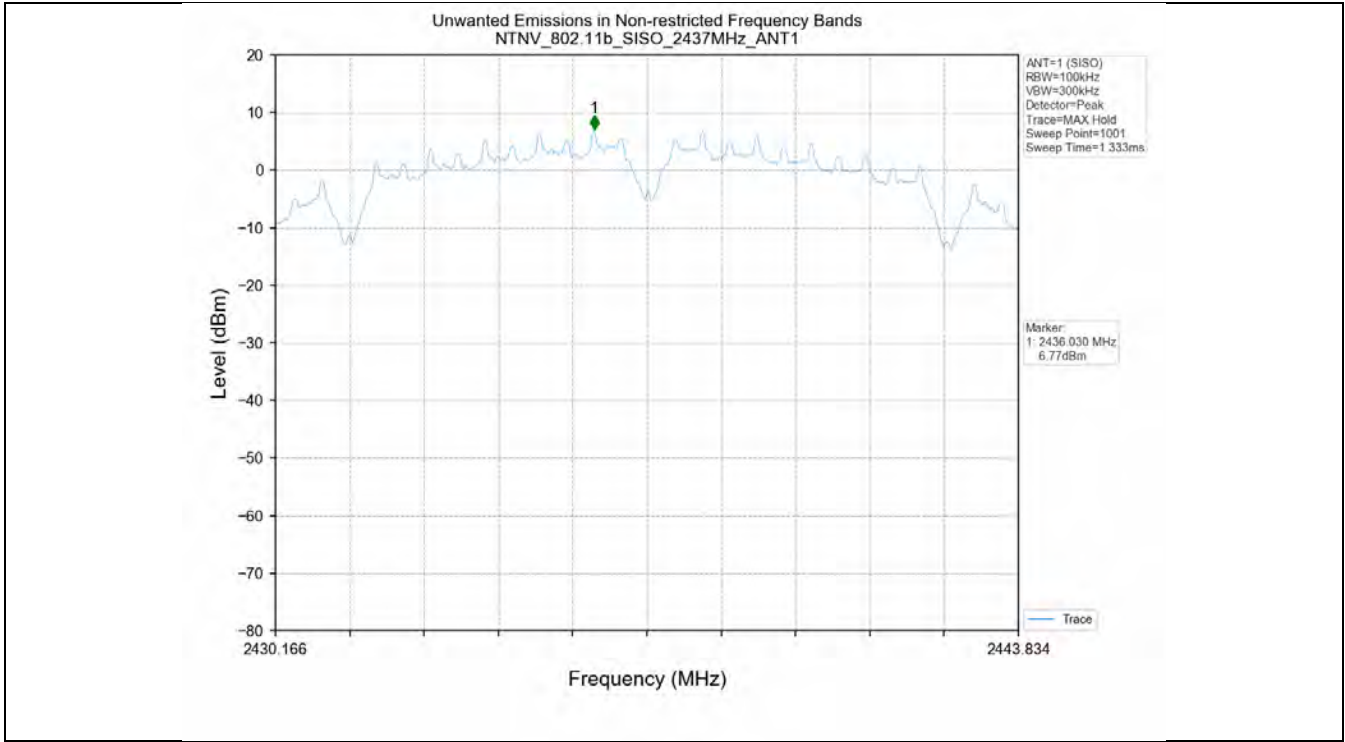


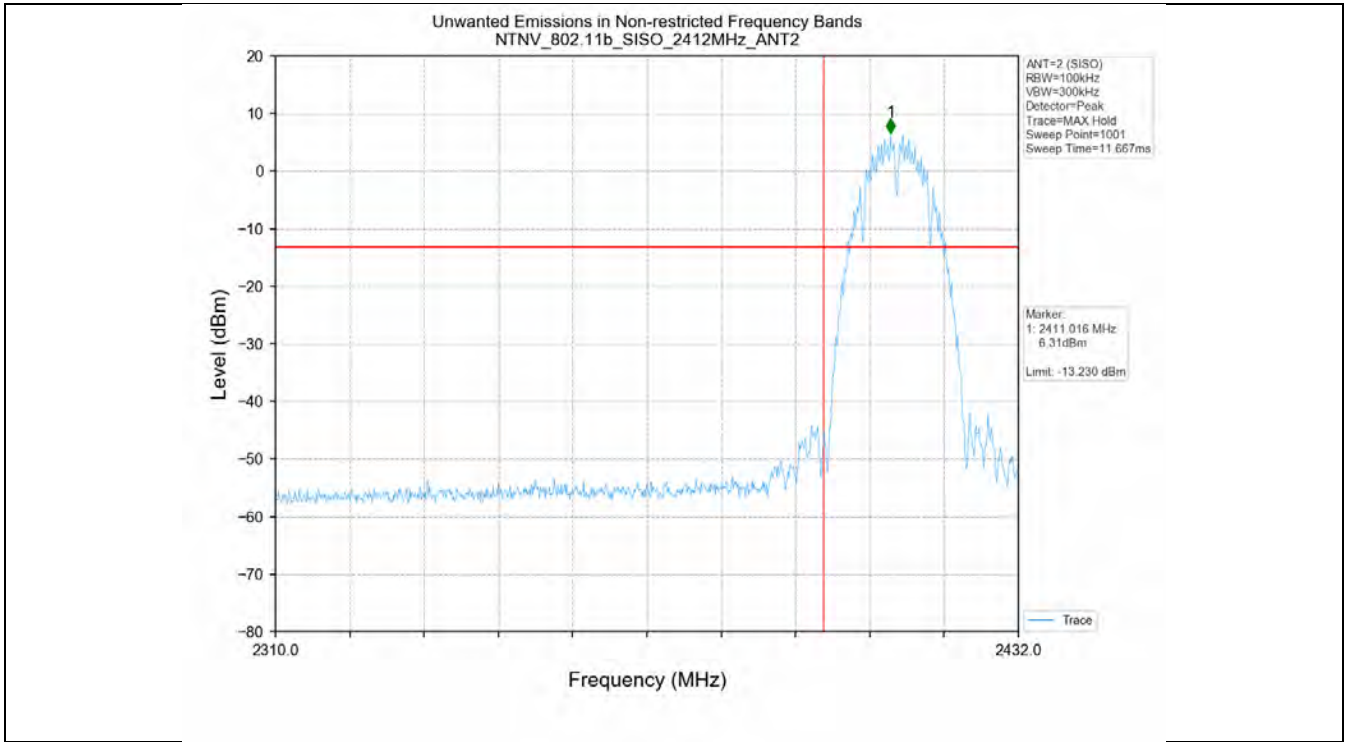
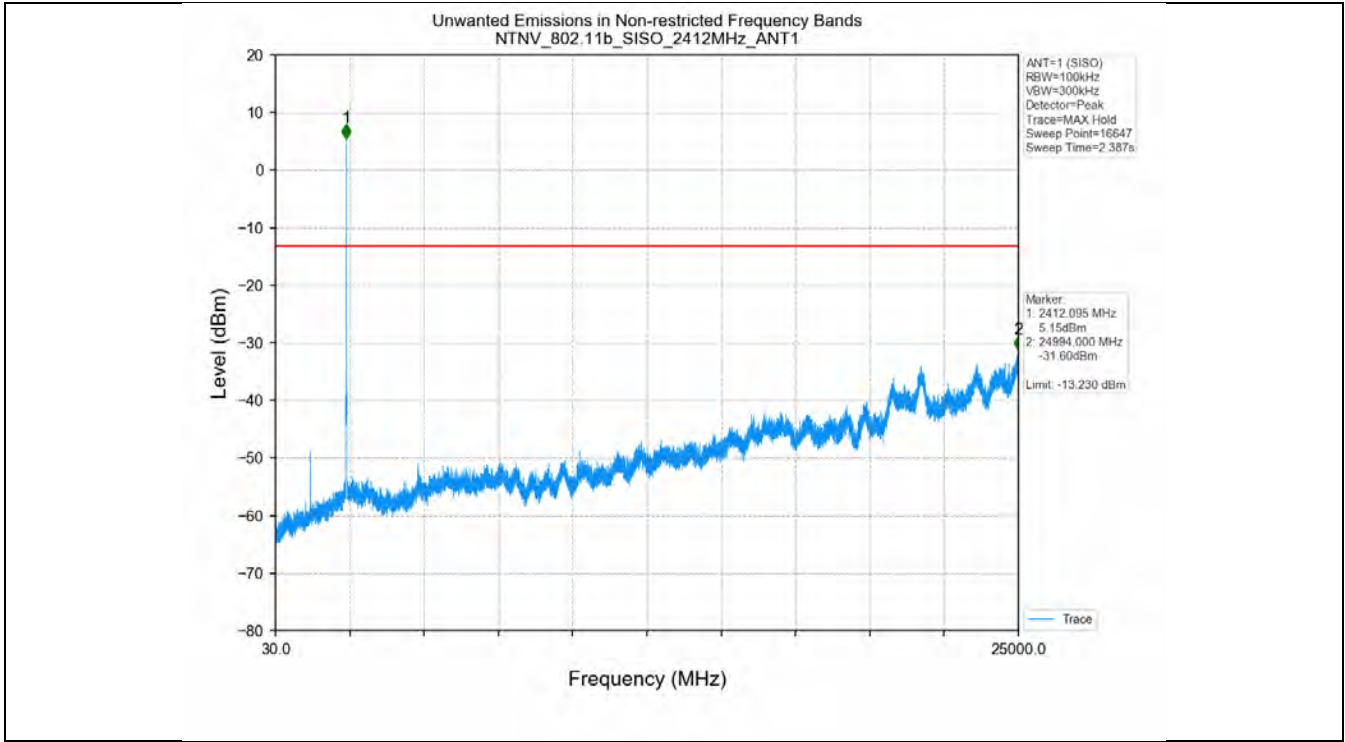
5. Unwanted Emissions in Non-restricted Frequency Bands

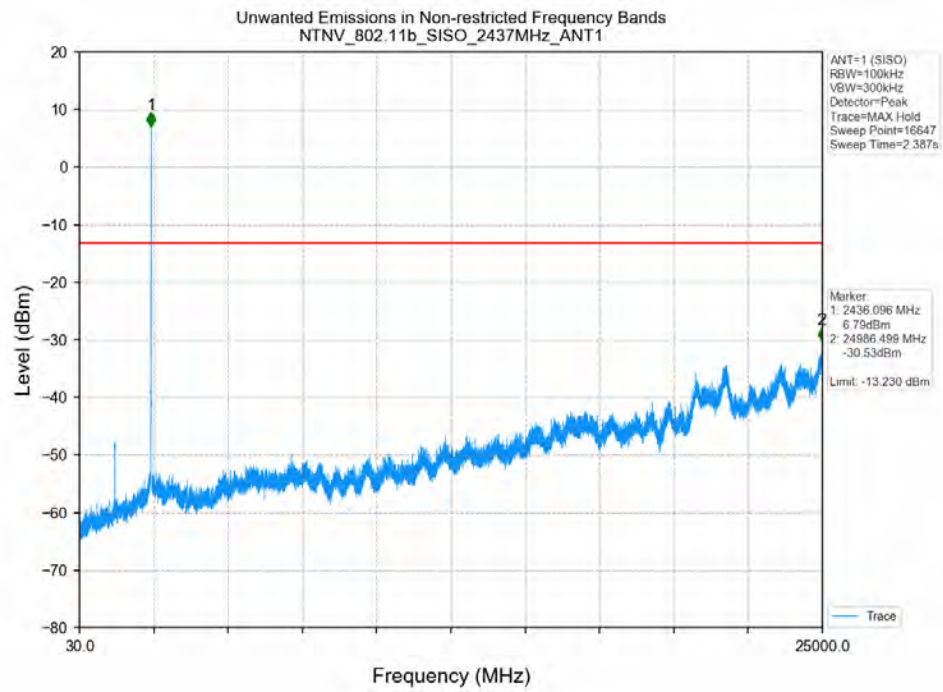
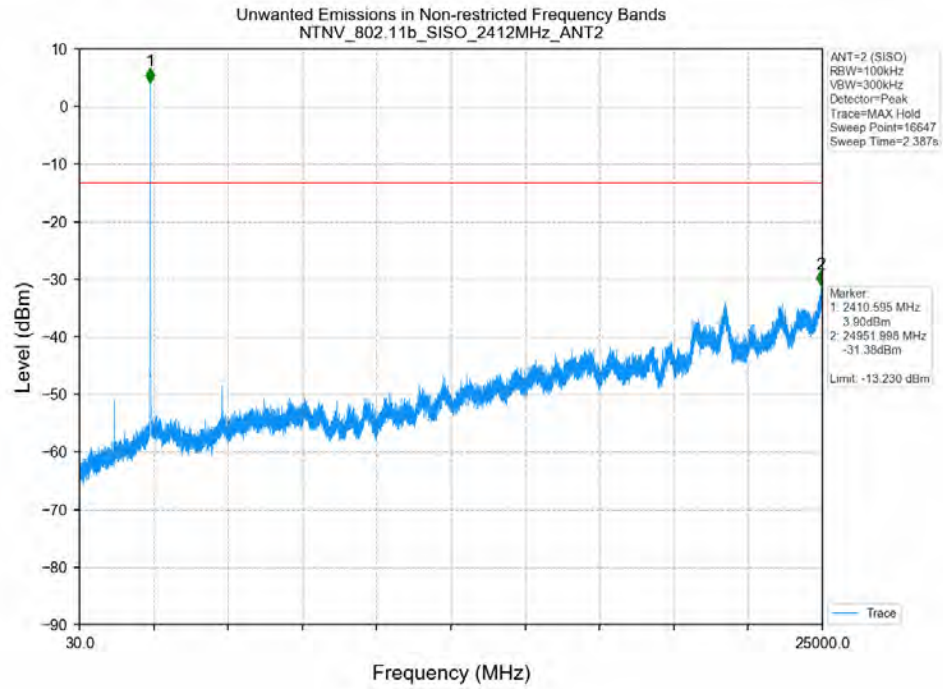
5.1 Test Result

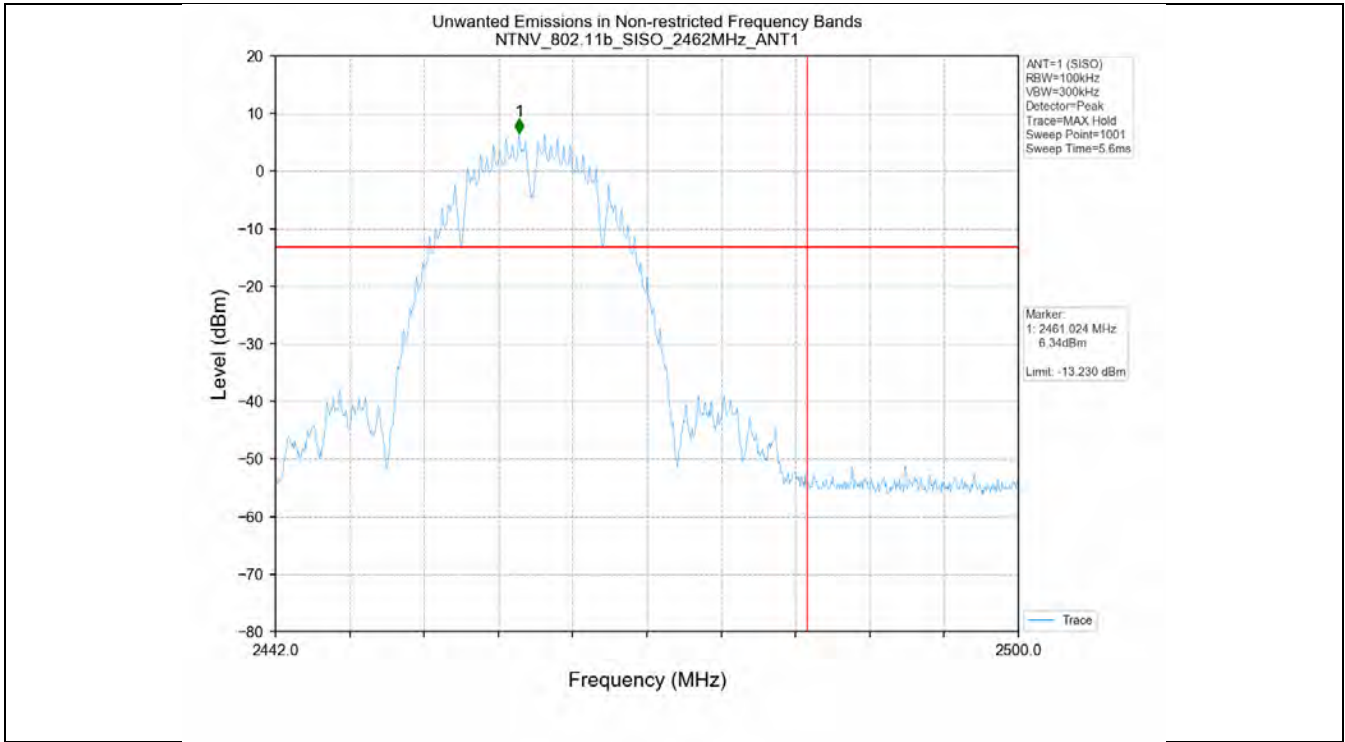
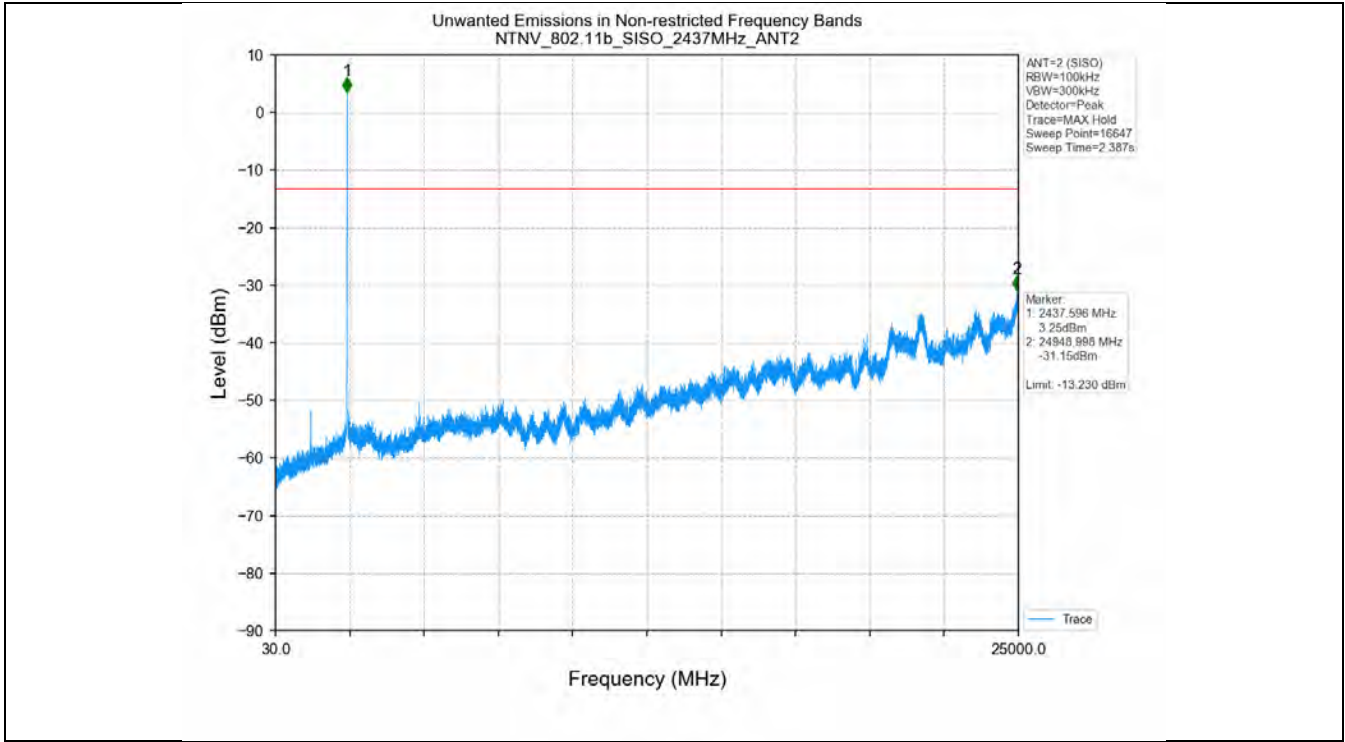
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-13.23	PASS
			2	Refer to test graph	-13.23	PASS
	2437	SISO	1	Refer to test graph	-13.23	PASS
			2	Refer to test graph	-13.23	PASS
	2462	SISO	1	Refer to test graph	-13.23	PASS
			2	Refer to test graph	-13.23	PASS
802.11g	2412	SISO	1	Refer to test graph	-17.76	PASS
			2	Refer to test graph	-17.76	PASS
	2437	SISO	1	Refer to test graph	-17.76	PASS
			2	Refer to test graph	-17.76	PASS
	2462	SISO	1	Refer to test graph	-17.76	PASS
			2	Refer to test graph	-17.76	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-19.25	PASS
			2	Refer to test graph	-19.25	PASS
	2437	MIMO	1	Refer to test graph	-19.25	PASS
			2	Refer to test graph	-19.25	PASS
	2462	MIMO	1	Refer to test graph	-19.25	PASS
			2	Refer to test graph	-19.25	PASS

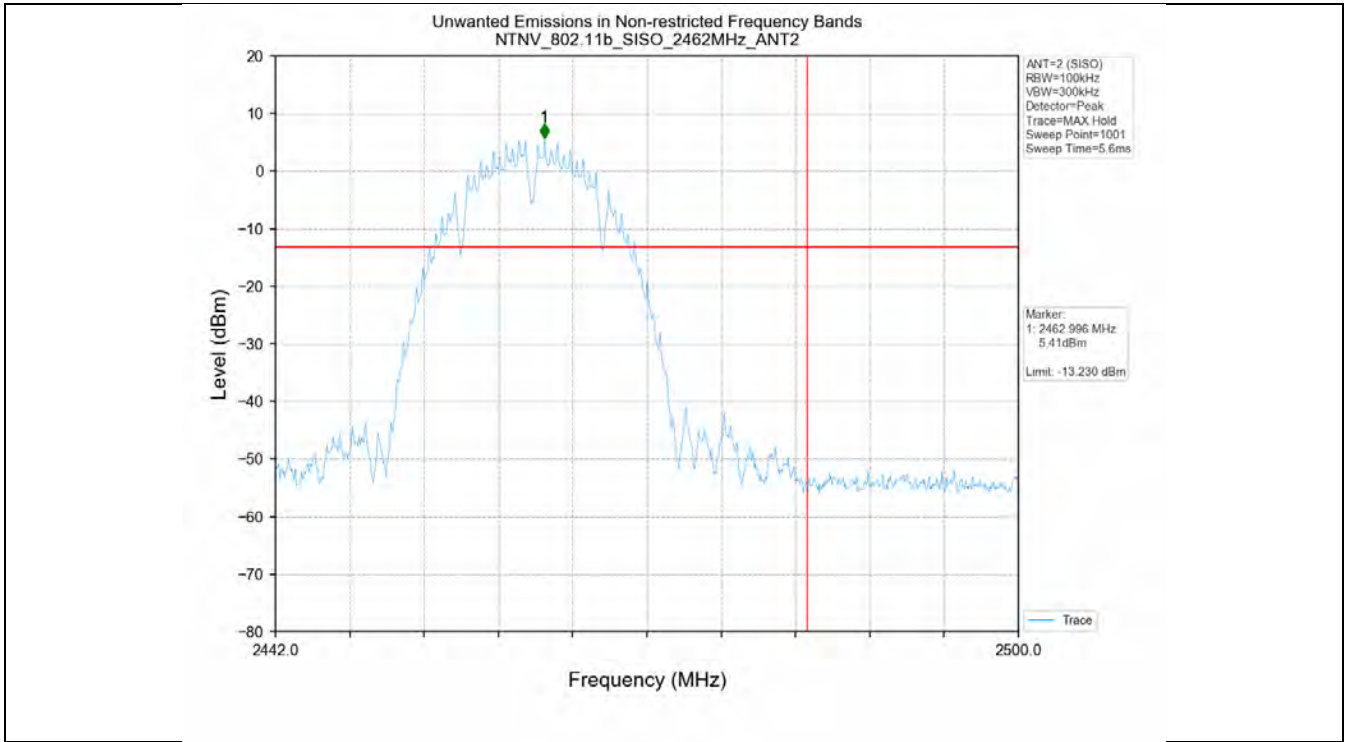
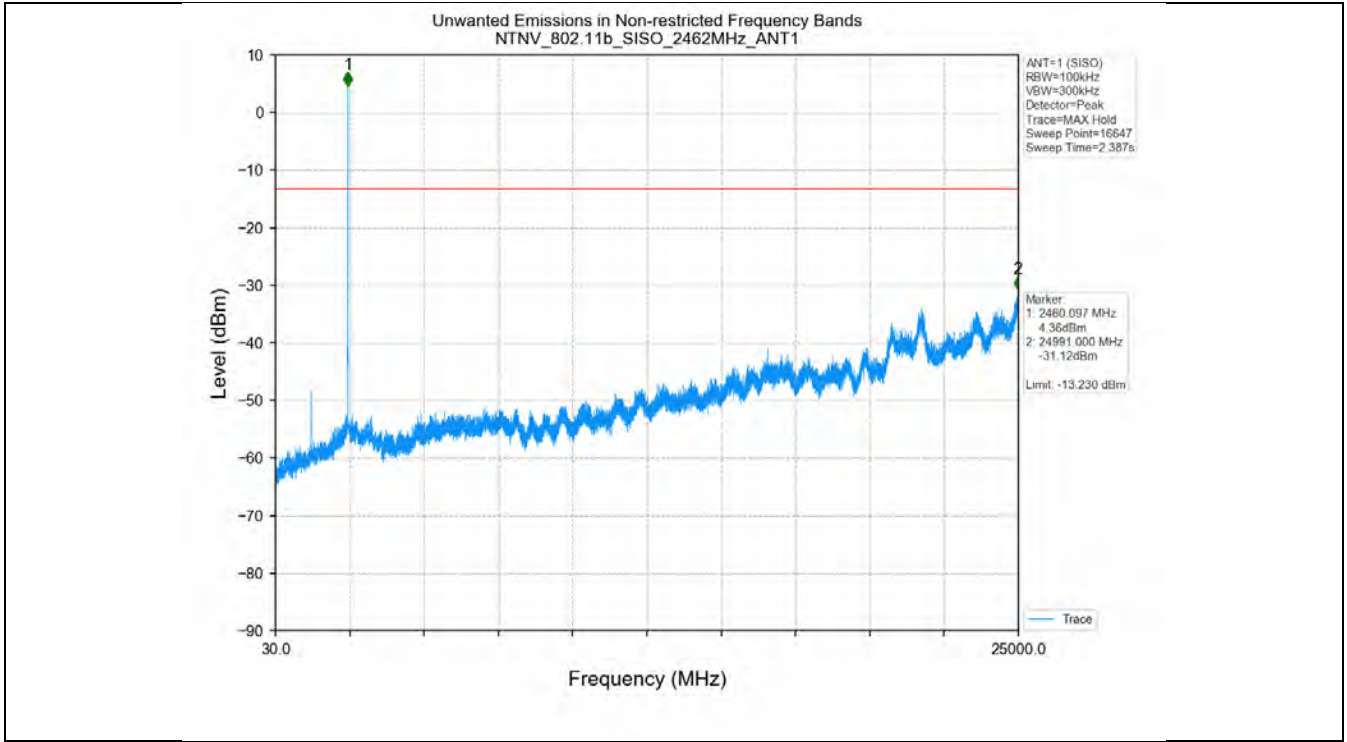
5.2 Test Graph

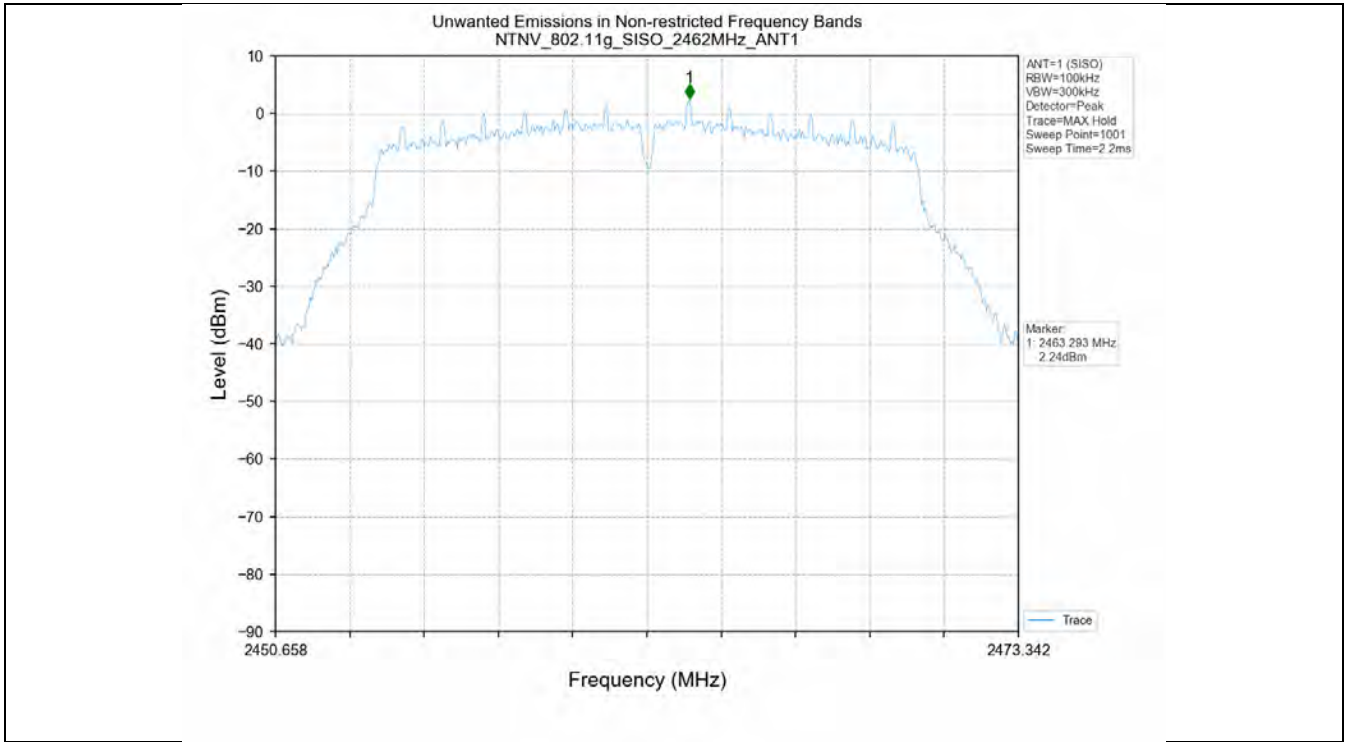
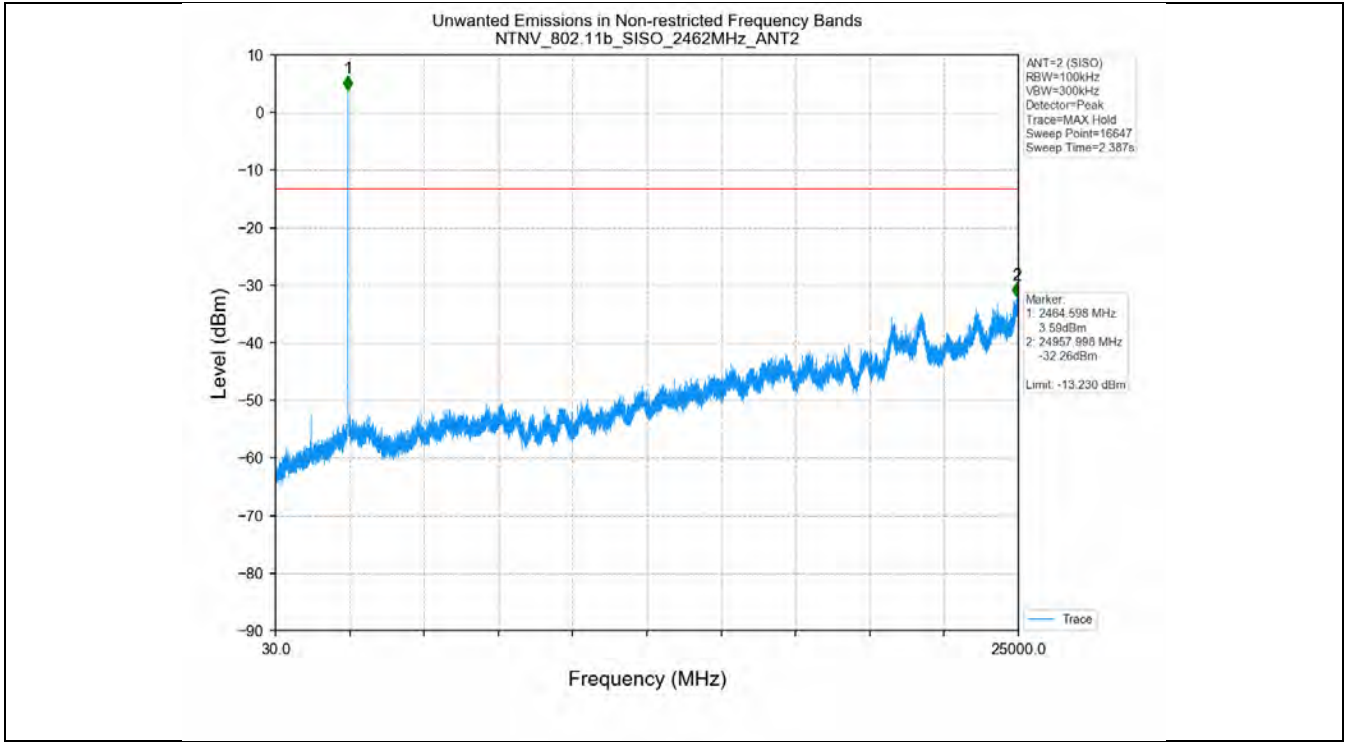


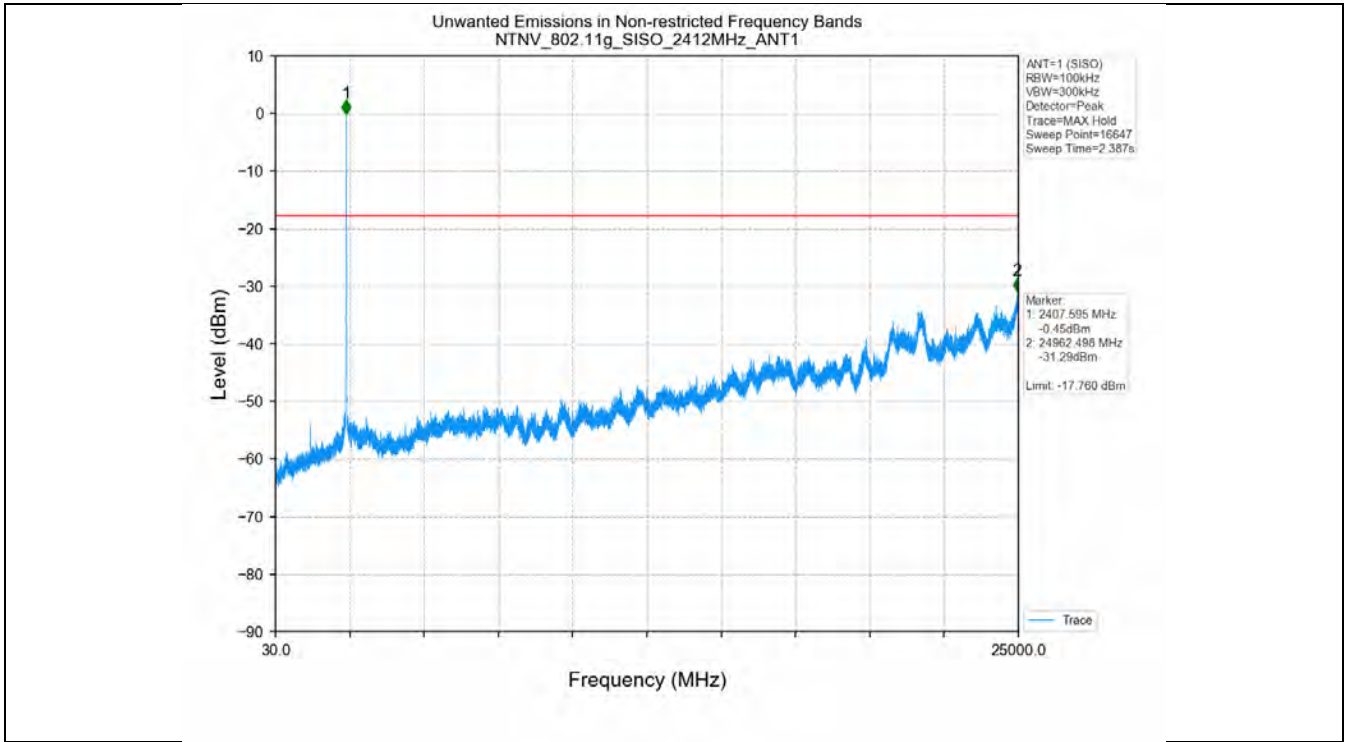
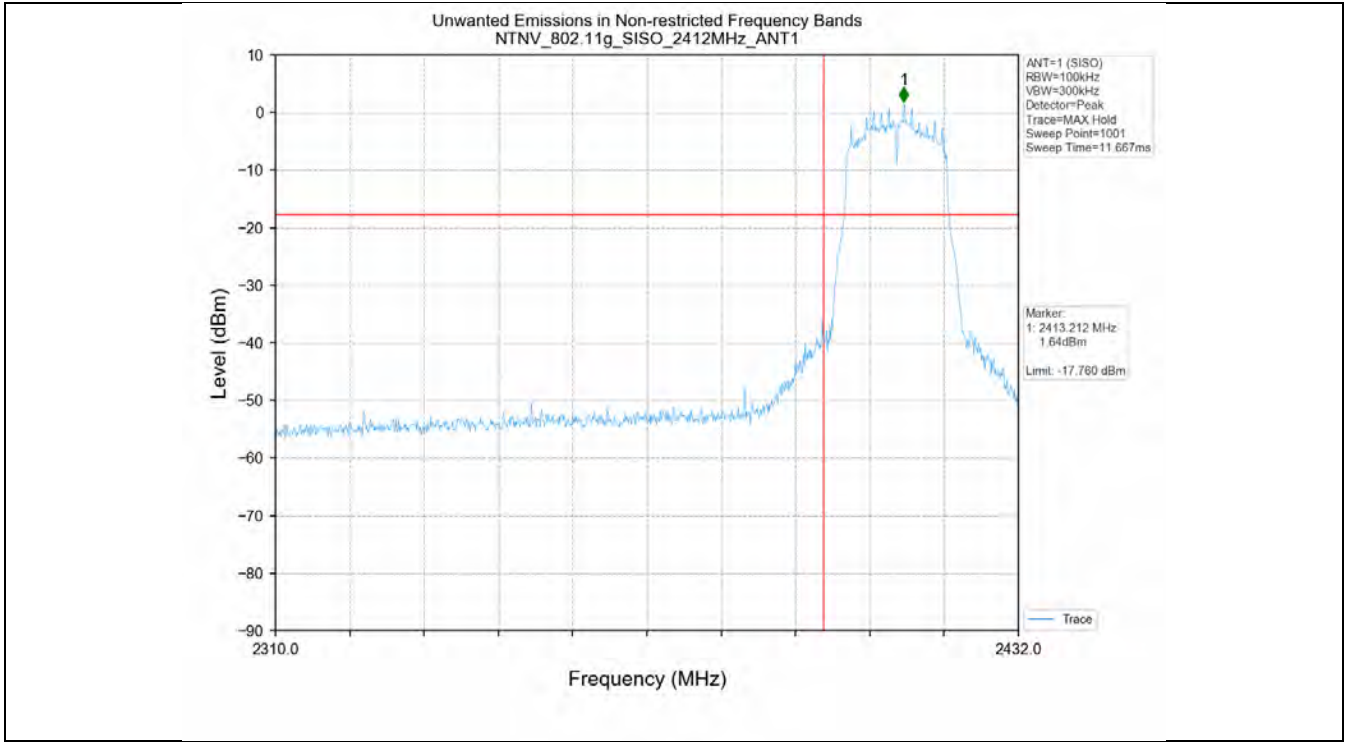


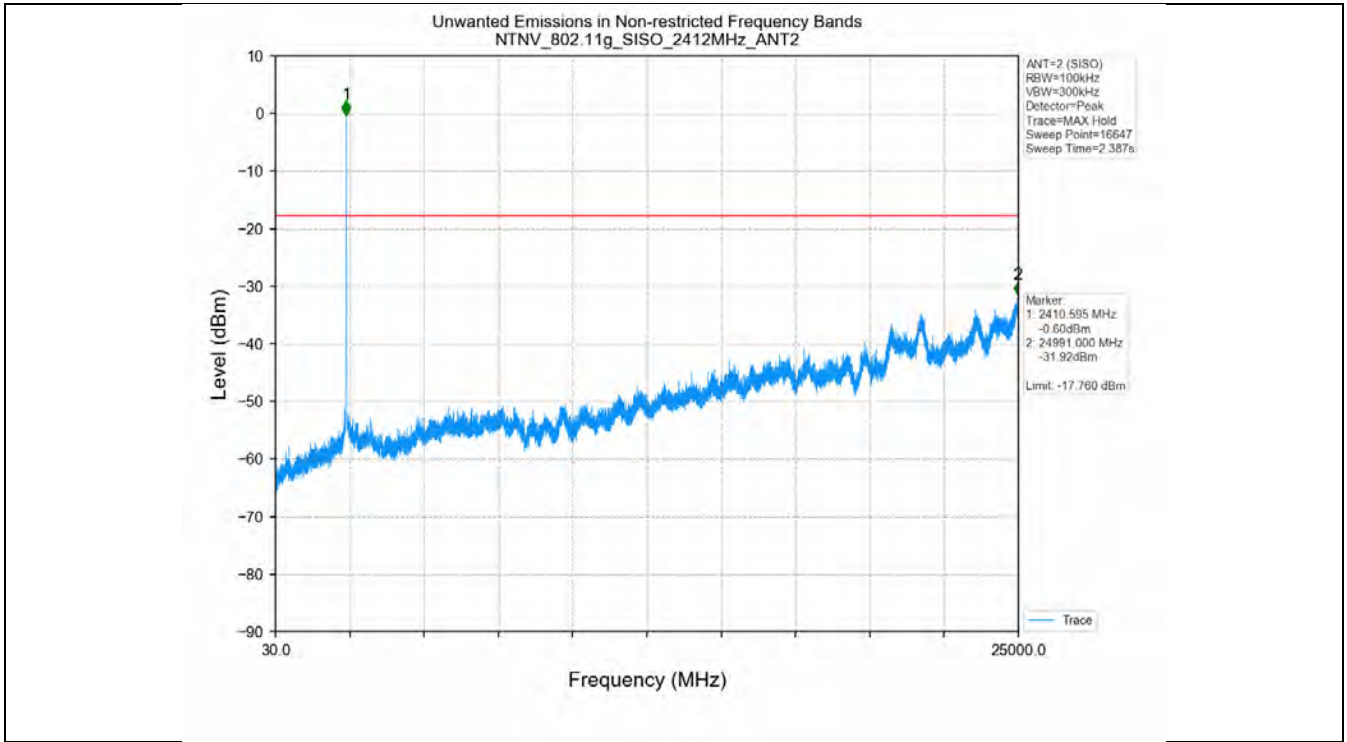
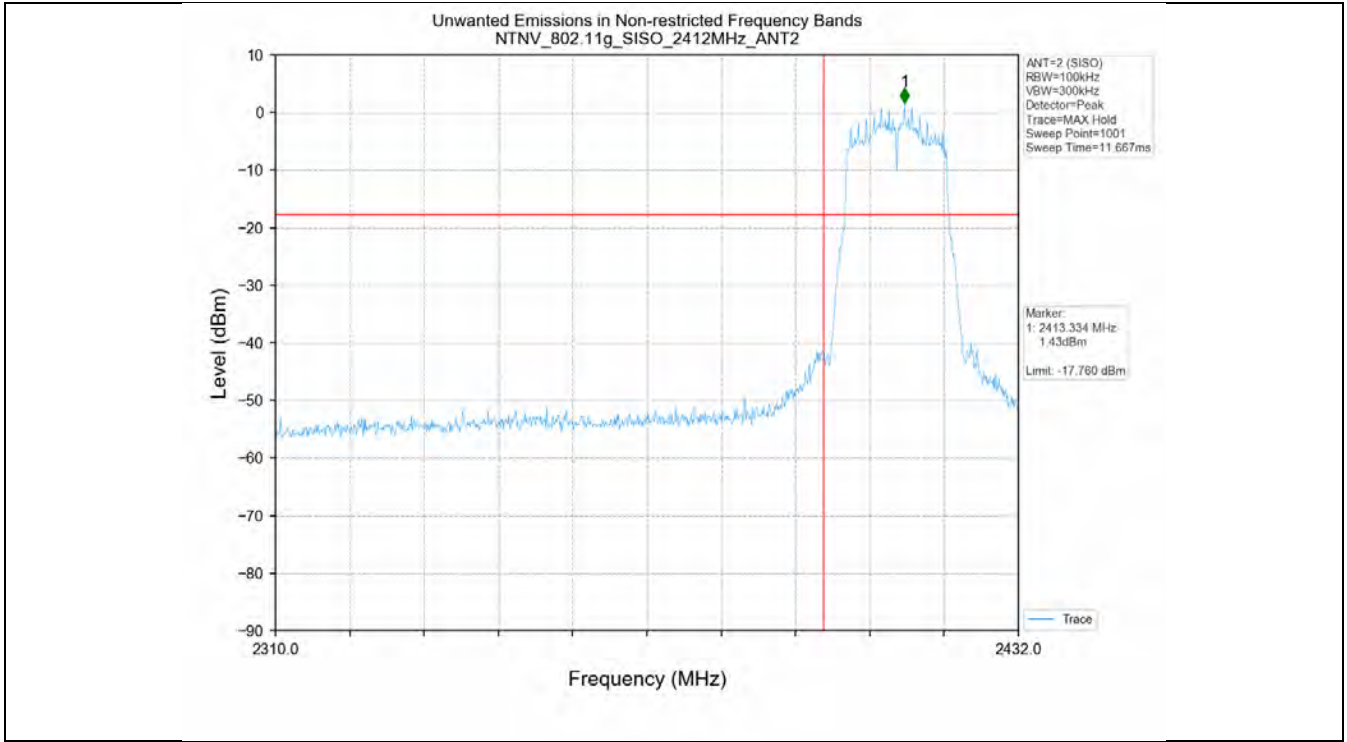


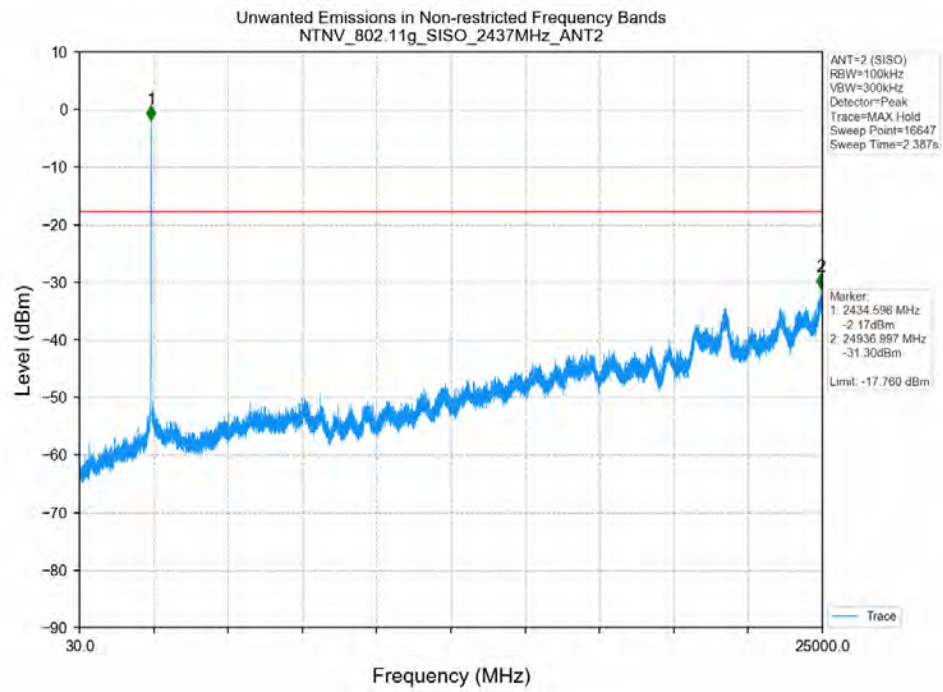
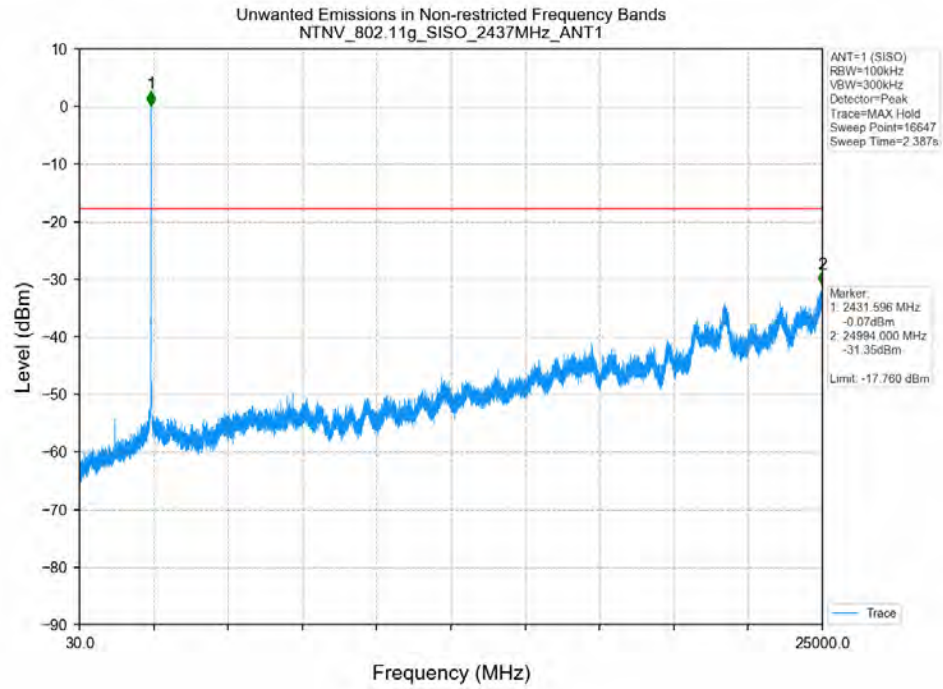


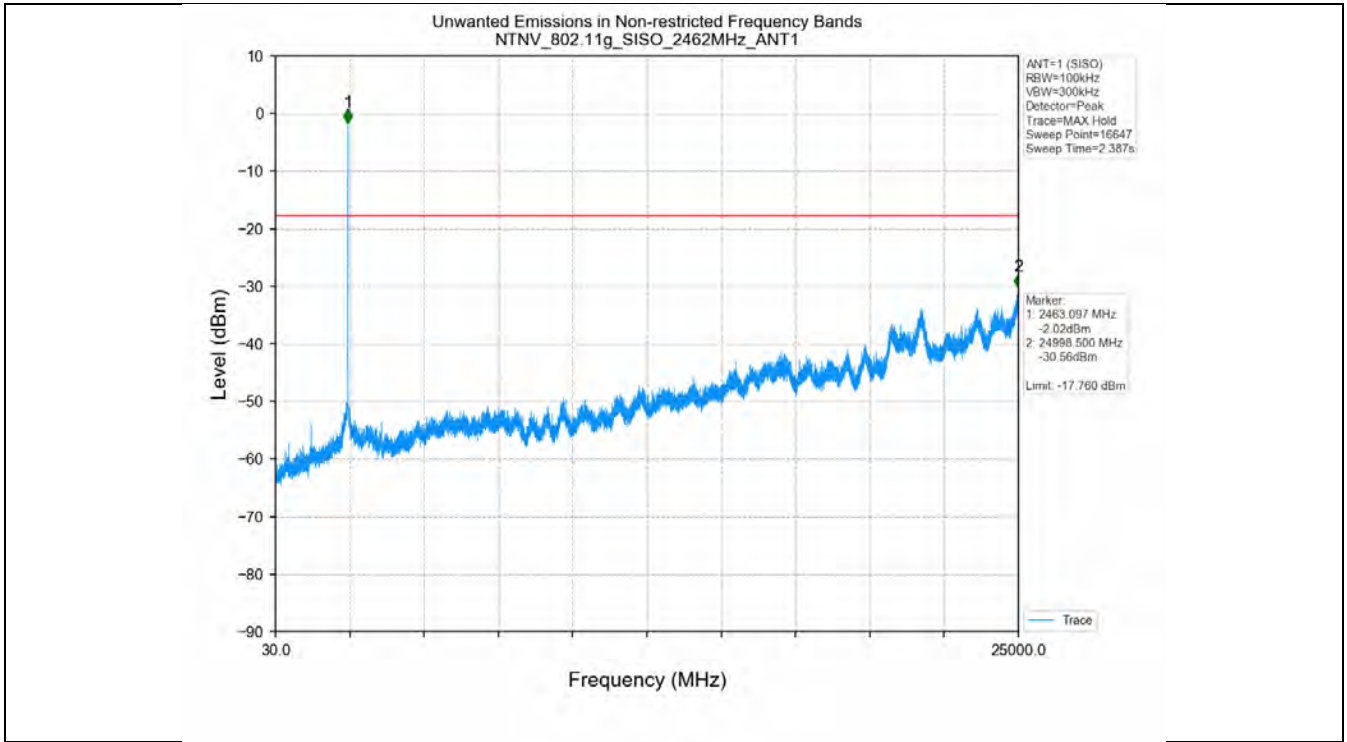
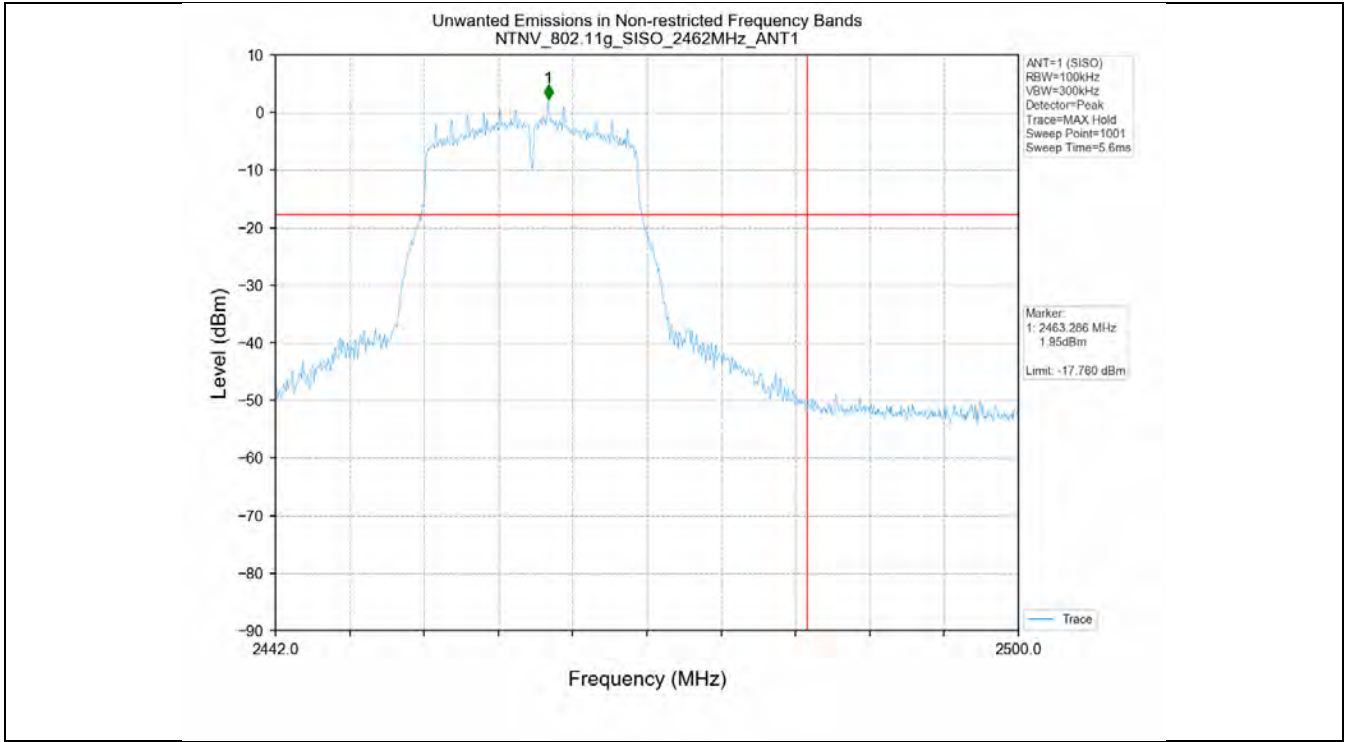


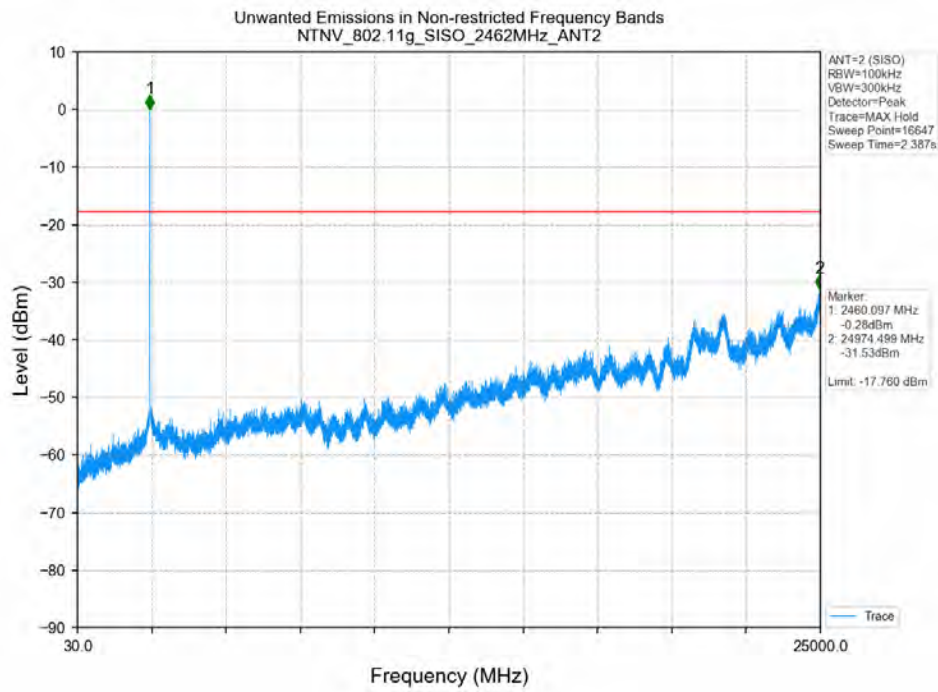
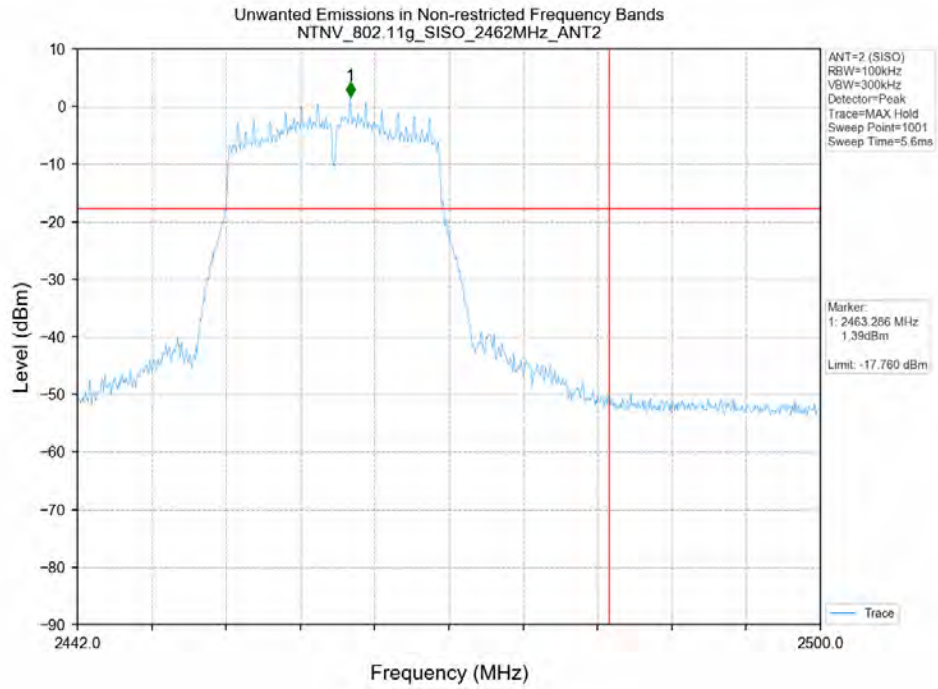


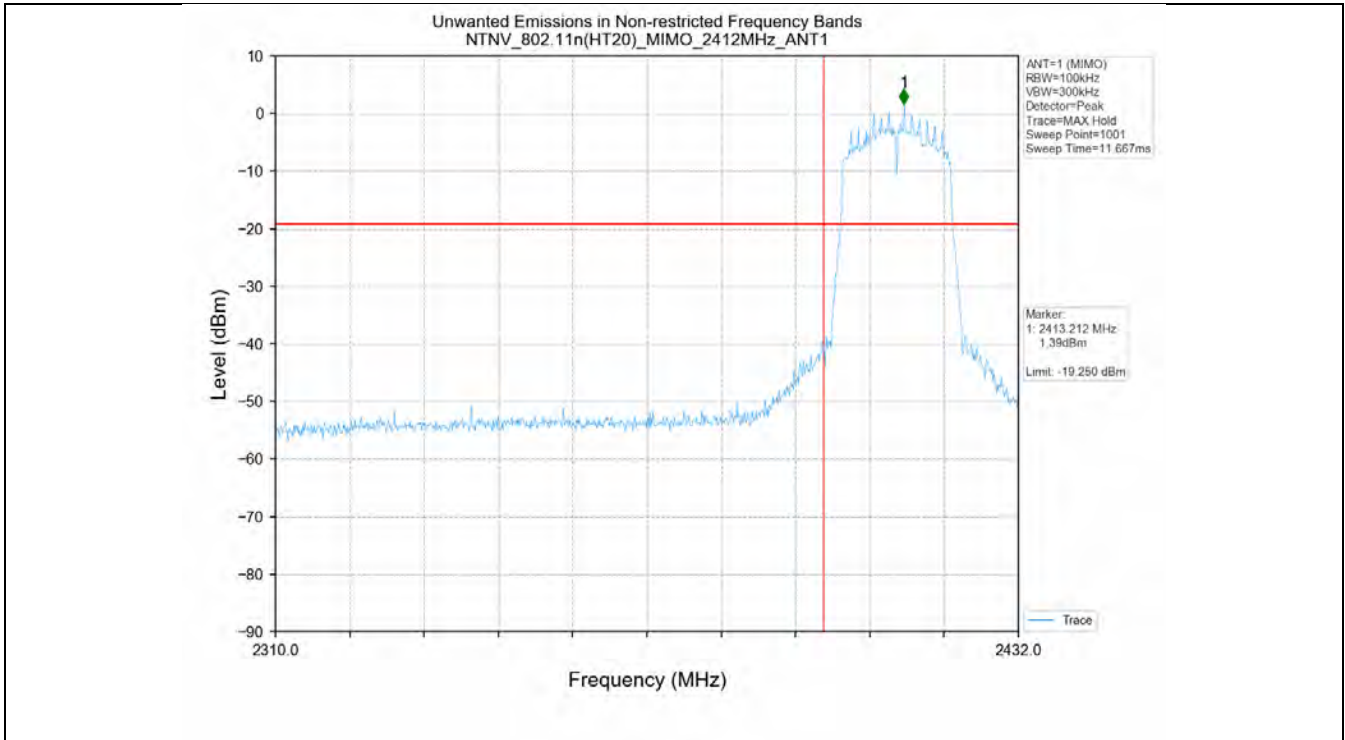
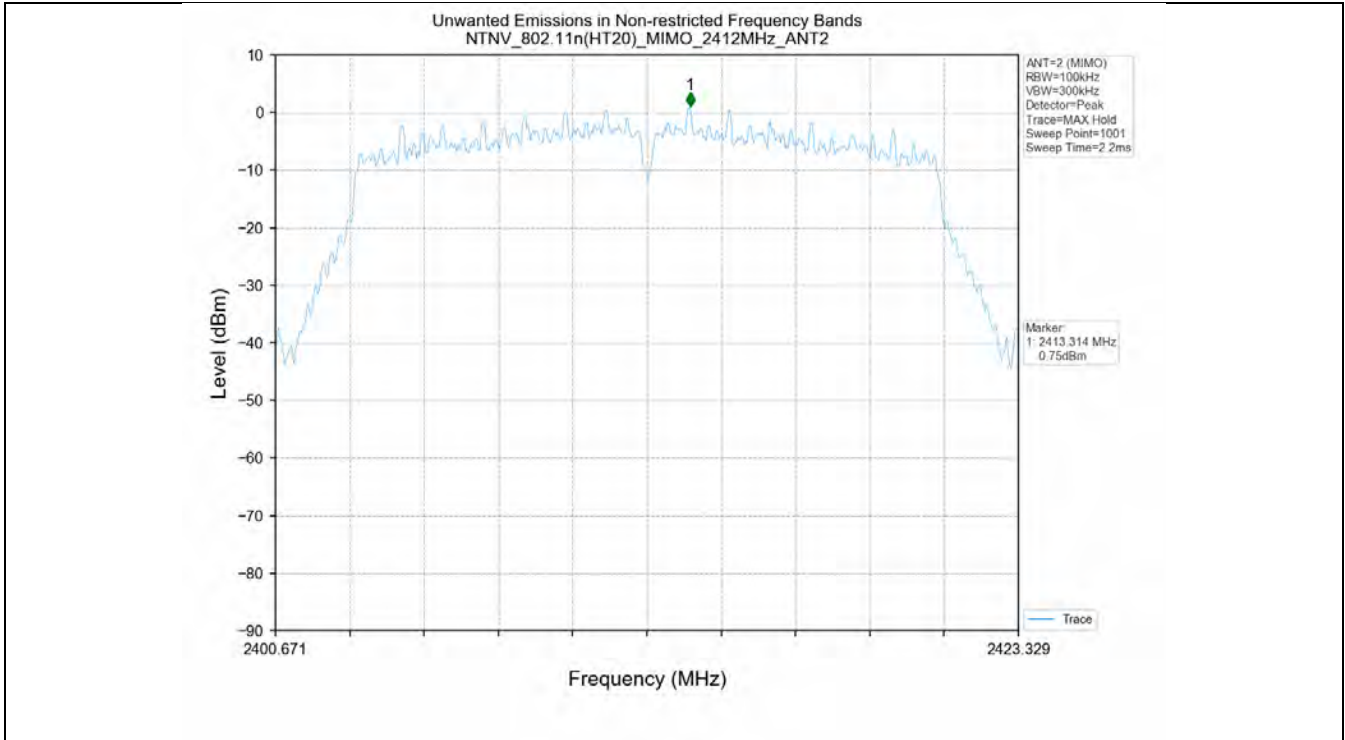




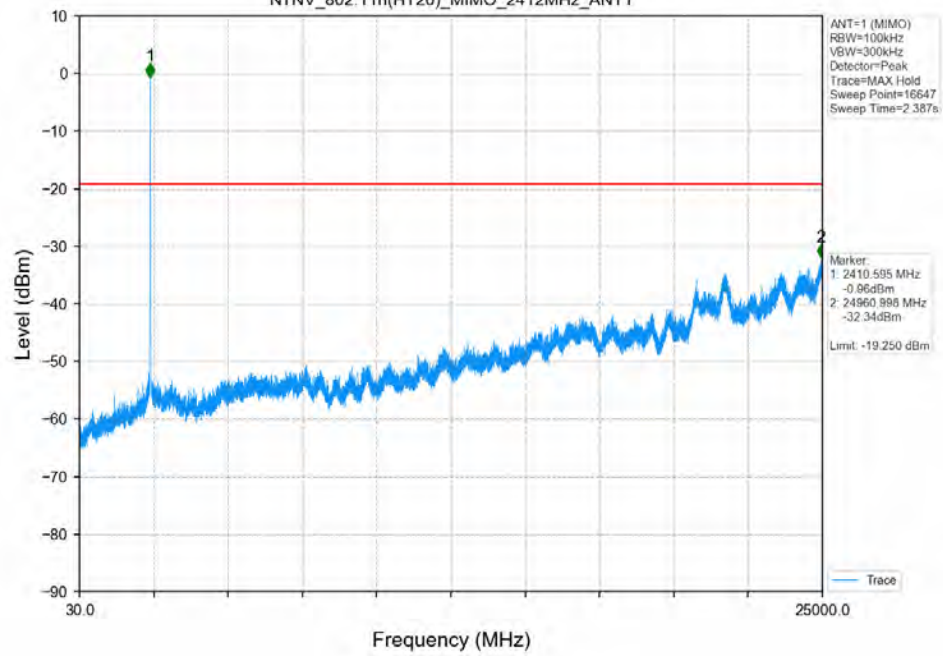




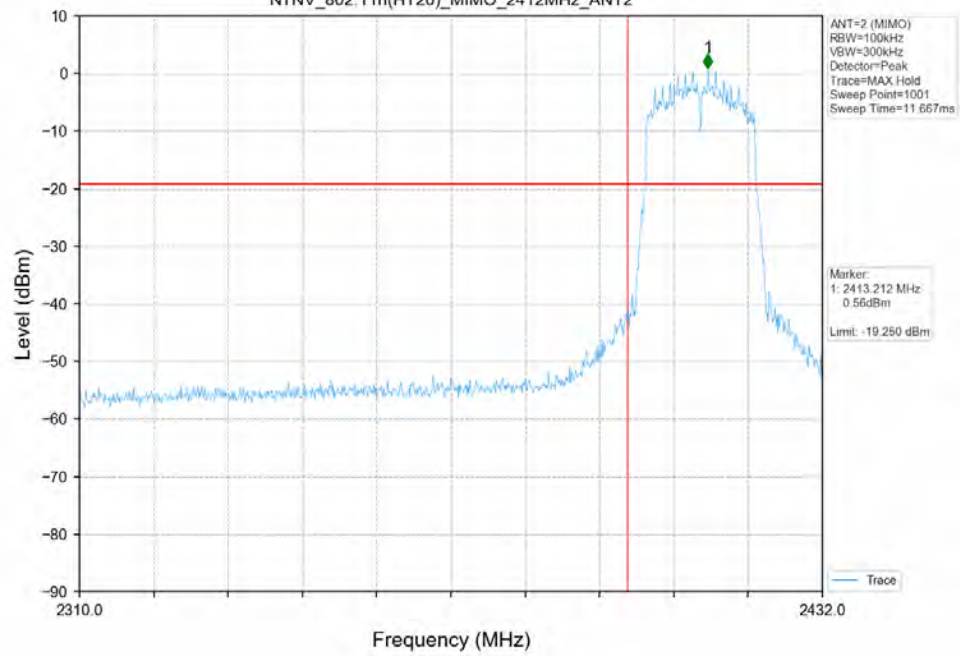


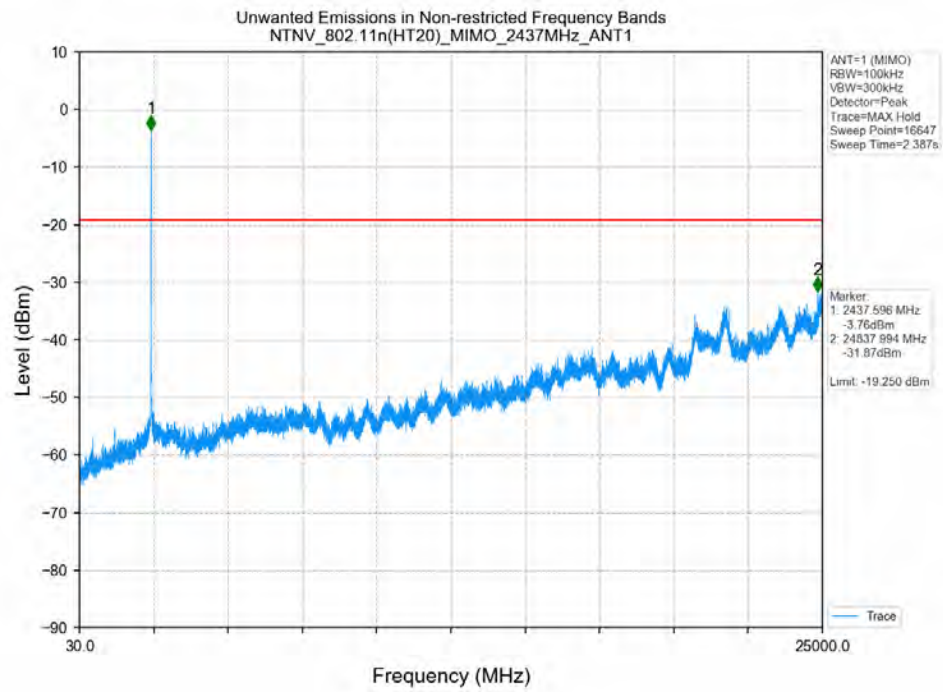
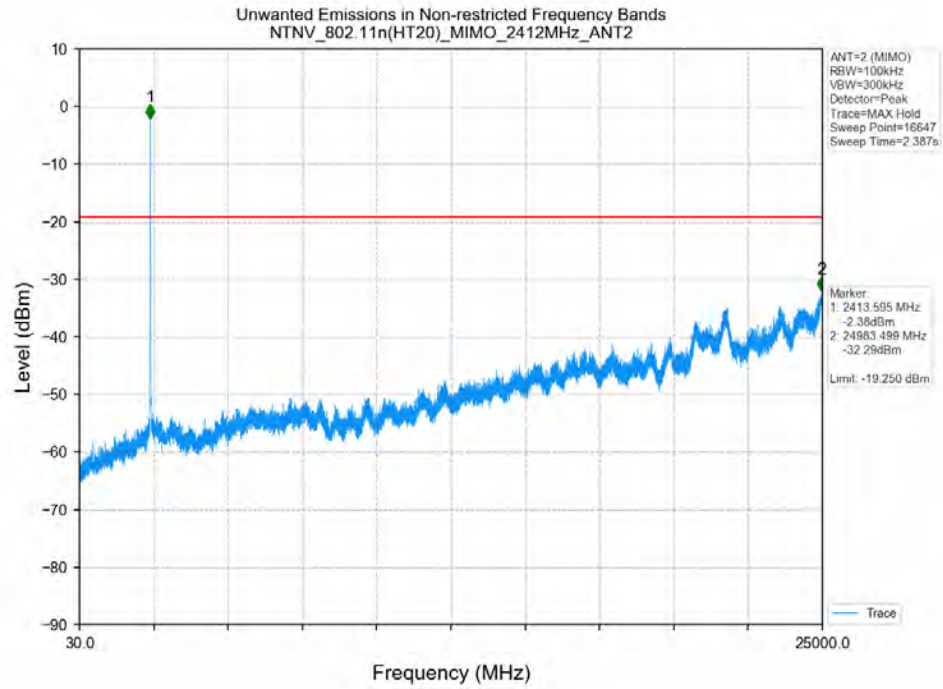


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1

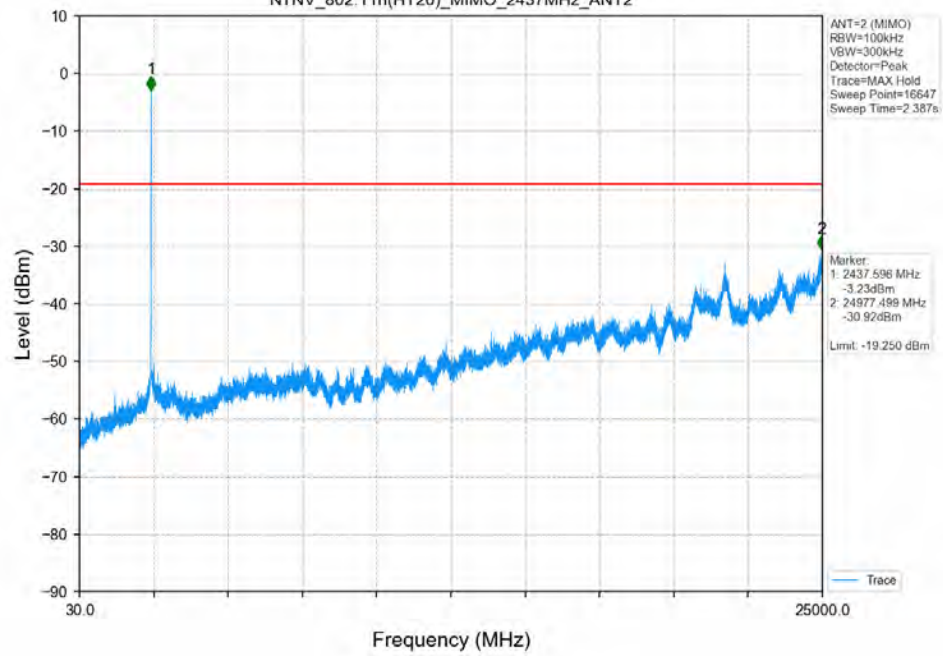


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2

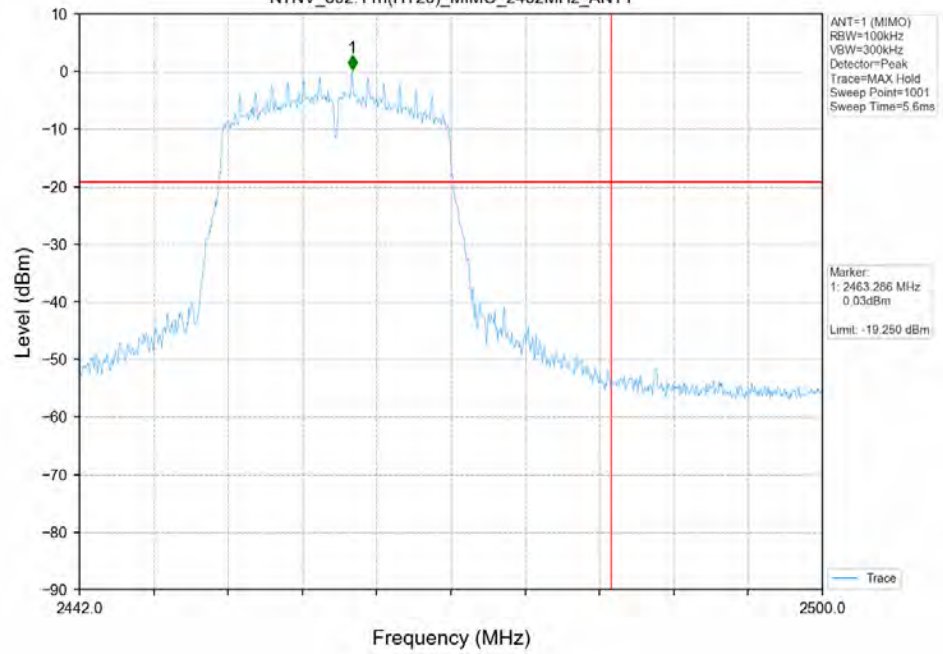




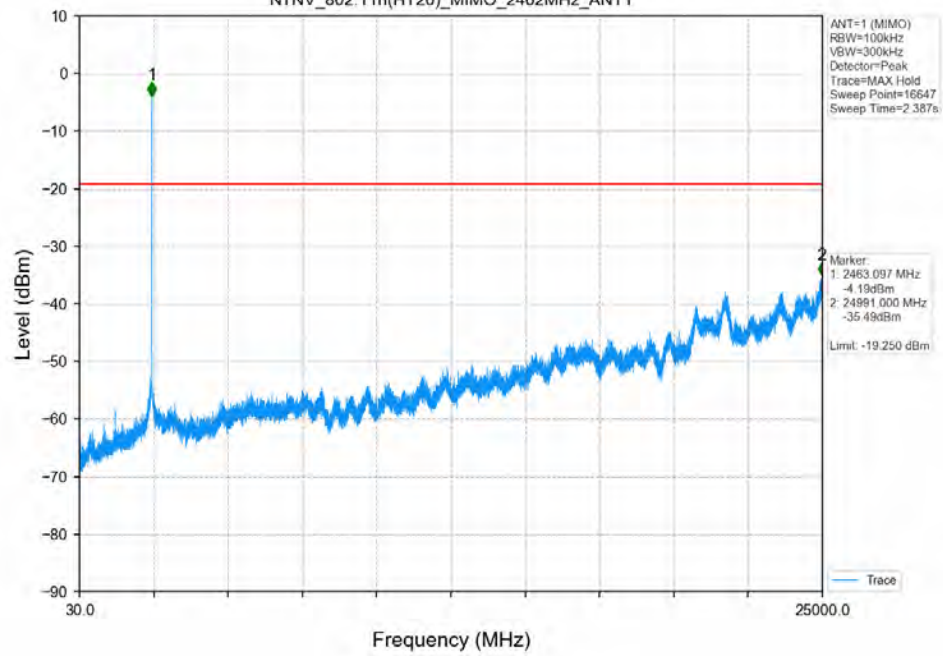
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2



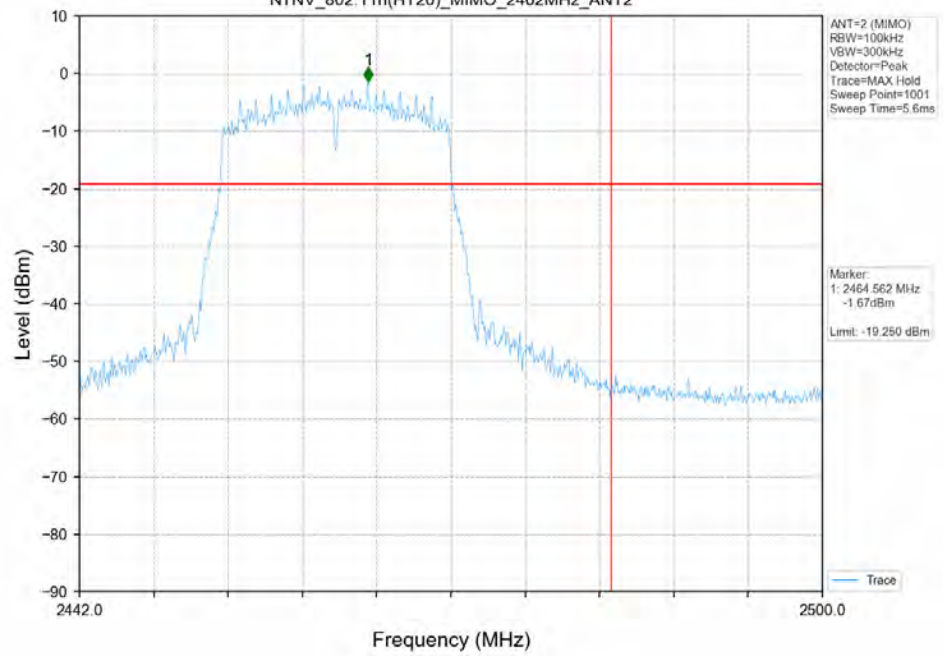
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2

